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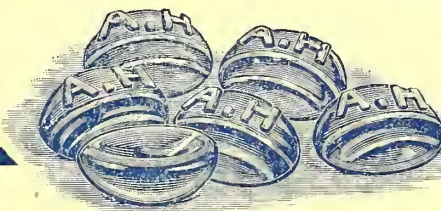
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**MAARSEN**

**QUININE and QUININE SALTS.**

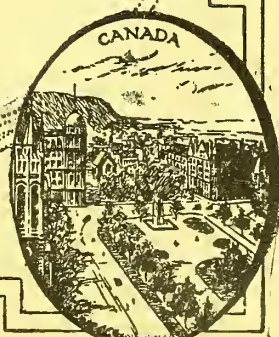
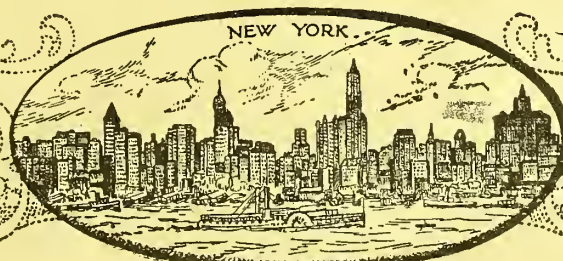
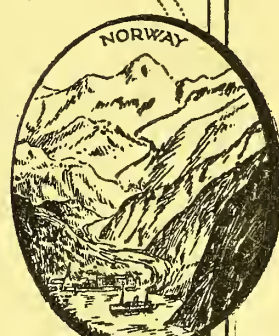
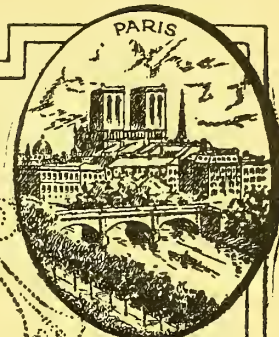
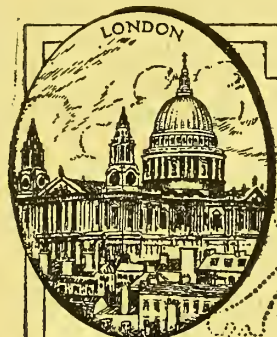
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**CINCHONINE, CINCHONIDINE, QUINIDINE,  
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MANUFACTURED BY  
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# PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS.

*For spot delivery.*

ACETYL SALICYLIC ACID  
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## FINEST QUALITY STEEL

HEAVILY NICKEL-PLATED. PERFECT FINISH.  
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which gives her assurance of prosperity for years to  
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you every facility.

To attain this extension of your trade ADVERTISE  
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THE MOST UP-TO-DATE CANADIAN  
TRADE PAPER, which will enable you to reach  
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DRUGGISTS** throughout that country, and  
literally sell your manufactures.

Write now for rates, and specimen copy, and, if you  
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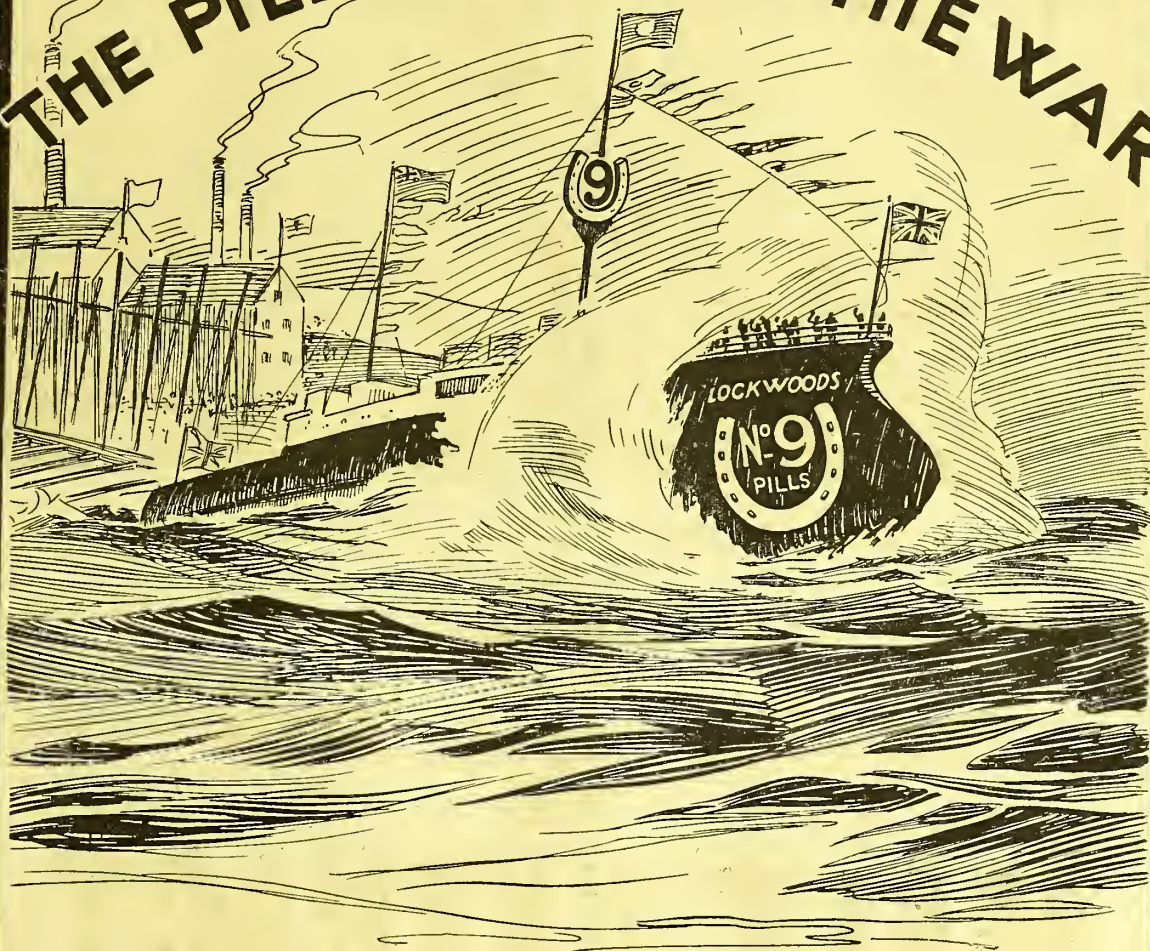
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THE PILL THAT WON THE WAR



SUCCESSFULLY LAUNCHED ON THE SEA OF POPULARITY

ORIGINATED AND MANUFACTURED SOLELY BY

**Lester Lockwoods, Ltd., 94-96 Cannon St., London, E.C. 4**

FULLY PROTECTED UNDER P.A.T.A.

RETAIL PRICE, **1/3** per box.

WHOLESALE PRICE, **11/-** per dozen.

*An extensive Poster and Press Advertising Campaign now proceeding.*

Avoid loss of sales by including a few boxes in your next stock order to our Wholesale Distributing Agents—

**W. EDWARDS & SONS, 157 Queen Victoria Street, LONDON, E.C. 4.**



**SAVE 3/- PER GALLON**

BY BUYING

**GUARANTEED GENUINE**

**NEWFOUNDLAND NON-FREEZING  
MEDICINAL COD LIVER OIL**

**OF NEW SEASON'S MAKE.**

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

**WHOLESALE ONLY.**

*Kindly write for sample to*

**JOB BROS., Manufacturers, Tower Building, LIVERPOOL.**

Telegraphic Address: "JOB LIVERPOOL"

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

**"John Bull"**



**MALT EXTRACT**

**IS THE BEST!!!**

*Wholesale & Export Only.*

**PAINE & CO., LTD., ST. NEOTS, HUNTS.**



# MAW'S PAGE

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BRANCH  
EXCHANGE

No. 415.

*S. Maw, Son & Son, Ltd.*  
7-12 Aldersgate St.  
London · E.C.1

27.9.19

TELEGRAMS:  
CENT  
ELEVEN  
LONDON

## Success, or Failure

The Optimist says "I'm right!"—  
The Pessimist also says "I'm right!"  
Perhaps they are both right. Yet  
the one differs from the other as the  
light from the dark.

Each may be right from his own  
particular point of view, and this  
point of view is the determining  
factor in the life of each.

It determines whether it is a life of  
Success or of Failure, of Power or  
of Impotence.

We will interest ourselves then with  
the Optimist, with but a passing re-  
ference to the Pessimist.

The former has the power of seeing  
things in their entirety, and in their  
right relation, with an understanding  
illuminated by wisdom.

The Pessimist has a limited and one-  
sided point of view and an under-  
standing which is darkened by  
ignorance.

Each, however, is in business, and  
the result of the building of the  
business is determined by the point  
of view of each.

The Optimist, by his superior wisdom  
and insight is making good, while the  
Pessimist, with his limitations and  
lack of courage is surely losing ground.

The Spirit of Optimism is manifest  
in the House of Maw, it has stood  
the test of over 100 years, and to-day  
is known throughout the pharma-  
ceutical world as the "House of the  
Moment." Why not let the Spirit of  
our Organisation be manifest in your  
business?

*Discuss*

# Be Prepared!

## SPECIAL OFFER

We are now offering our famous "Cottage"  
Bronchitis Kettles at greatly reduced prices.  
Why not keep a few in stock? They will be  
wanted.

Include your requirements for Bronchitis  
Kettles upon your next order, taking advantage  
of carriage and possibly increased prices in the  
near future.

### PRICES:

2-pint ... 24/- per dozen  
4 .. ... 30/- ..



## Items:

A superior Enema at a reasonable  
price and one to recommend is  
the "Parex." Of velvet finish,  
put up in a grey, oval top, dome  
box, complete with vaginal pipe  
and shield. No outside indica-  
cation of contents, and the price  
is only 3/8 each. "Parex" means  
Perfection!

For a really good preparation  
which is thoroughly efficient  
and antiseptic, the following  
styles of Maw's Dental Plate  
Soap are commended.

	Price dozen
Aluminium Case ...	6/-
Enamel Case ...	6/-
Celluloid Case ...	6/5

The "Aldersgate" Body Belt made  
of excellent quality grey flannel  
(lined) is just the line for the coming  
winter. Entirely British made. All  
sizes in stock. Price 3/3 each.

An Ear Syringe for self use.  
Fitted with ring handle and  
flange, which enables syringe to  
be controlled by one hand.  
A safety shield near nozzle  
prevents the point entering too  
far into the more tender parts of  
the ear. Capacity 1 oz. Each  
in box. 20/- per doz. Order  
No. 3151.

No. 11. Marking Ink. Put up  
in corked bottle in cardboard  
cases. This popular ink, requiring  
no heat, is in large demand at  
all times. New size, 4/- per  
doz.

Pint Measures. Tinware. Fitted  
with collar to prevent spilling, and  
spout for pouring. Stamped. Order  
No. B2109/R. 2/3 each.

# “BEAUTOID”

SERIES OF TOILET PREPARATIONS.

## 100% Profit Proposition

THIS special offer is open to you to-day. We want the use of a portion of your window to show The “Beautoid” Specialities, the most attractive and dainty series of Toilet Preparations ever offered to the trade.

The preparations are right, the packing is right, and your profit is right—over 100% on outlay.

A vigorous advertising campaign with thousands of free samples for the public is in course of preparation; get ready for the demand.

Plentiful supply of Dummy Cartons, Window Bills, Showcards and Price Tickets with each order.

### Send us your order TO-DAY.

**SPECIAL  
WINDOW  
SHOW  
OFFER**

	Cost.	Profit.
	£ s. d.	£ s. d.
6 doz. “Beautoid” Dental Cream, sells at 1/3, trade price 10/- per doz. ...	3 0 0	3 15 0
3 doz. “Beautoid” Dental Cream. Free Bonus.		
6 doz. “Beautoid” Shampoo Powders, sells at 3d. trade price 2/- per doz. ...	0 12 0	0 15 0
3 doz. “Beautoid” Shampoo Powders. Free Bonus.		
6 doz. “Beautoid” 2-oz. Vanishing Cream, sells at 1/3, trade price 10/- per doz. ...	3 0 0	2 12 6
1½ doz. “Beautoid” 2-oz. Van. Cream. Free Bonus.		
6 doz. “Beautoid” 4-oz. Face Powders, sells at 1/6, trade price 12/- per doz. ...	3 12 0	3 3 0
1½ doz. “Beautoid” 4-oz. Face Powders. Free Bonus.		
	10 4 0	
	0 5 1	
Less 2½%, cash in 7 days	£9 18 11	10 5 6

CASES FREE. CARRIAGE FREE.

**£10 - 5 - 6**  
**PROFIT**  
**ON AN**  
**OUTLAY**  
**OF**  
**£9 - 18 - 11**

“Beautoid” Hair Fixer, 1/6. Bay Rum, 1/6. Hair Color Restorer, 2/6. Milk of Cucumber Liquid Face Cream, 1/3. Massage Cream, 1/3. Sun Kissed Cream, 1/3. Lip Salve, 9d. 33½% discount, 3 to the dozen bonus.

ALL JARS AND BOTTLES PUT UP IN ATTRACTIVE AND EXPENSIVE CARTONS.

# THE BEAUTOID Co.

220 TOWER BRIDGE ROAD, LONDON, S.E. 1.



# It pays to push Palmolive

*The demand for these saleable products increases every minute:*

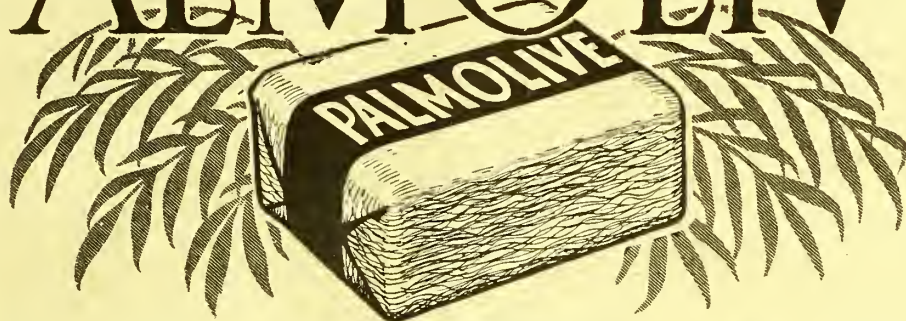
**T**HE word PALMOLIVE means more than a name for the purest soap made, and possessing a world-wide reputation—it stands also for *purity and quality* of all PALMOLIVE Specialities.

Most toilet articles are sold first through the eye. Unwittingly, instinctively everyone feels the "I want to buy that" impulse, generated by the attractive and compelling package. In such all Palmolive Goods are packed.

Write for our new list of Prices, showing special terms, also for Showcards, etc., for window and counter display.

Palmolive Soap (9d. per Tablet) is made of the finest Olive Oil and Palm Oil obtainable, scientifically blended. It contains no free Alkali or artificial colouring, lathers freely in hard water and leaves the skin white with a silky softness and possessed of a delightful fragrance that has made Palmolive so much desired by the most discriminating. Cost per dozen, 6/- On the P.A.T.A. list.

# PALMOLIVE



**PALMOLIVE SHAMPOO** (3/-), is put up in attractive bottles and secures repeat orders when once used. It is highly concentrated. Cost, per dozen, 24/-.



**PALMOLIVE SHAVING CREAM** (Tubes, 1/6). Contains sufficient for 152 shaves, and is made from a formula after 13 years had been tried and discarded. Contains Palm & Olive Oils. Cost per doz., 12/-.



**PALMOLIVE TALCUM** (4 oz. containers, 1/3) is made from the finest air-floated Talcum, selected before purchase for purity, quality, colour, and softness, and tested again on delivery by competent chemists. Cost per doz., 10/-.



**PALMOLIVE VANISHING CREAM** (Jars 2/6, Tubes 1/-). Fragrant and refreshing, the jar (satin-finished, glass stoppered) half sells it. It will be one of our most popular lines.

Cost per doz., Jars, 20/-, Tubes, 8/-.



**PALMOLIVE SHAVING STICK** (1/6), a combination of high-grade Palm and Olive Oils.

The holder is an oval pure aluminium container with novel screw action expelling the stick as required.

A sure seller and the novelty of the season. Cost per dozen 12/-.



**PALMOLIVE FACE POWDERS** (2/6 per box) have a healing & soothing effect on the skin, and

are entirely unaffected by perspiration or moisture. The powder as fine as petal dust. (White, Rose, and Brunette). Cost per dozen 20/-.



**PALMOLIVE COLD CREAM** (same as original Palmolive Cream (Jars 2/-, Tubes, 1/-). The aristocrat of cold creams. It is considered by many ladies to have no equal.

Cost per doz., Jars, 16/-, Tubes, 8/-.



**LAVENDER and ROSE BATH SOAPS** (White Floating Soap) our last new lines from Canada. The buoyant property renders them invaluable for the

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Cost per doz., 4/4.



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**LIP ROUGE** (1/-) It is delicately perfumed and leaves the lips most supple and velvety.

Cost per dozen 8/-.

**THE PALMOLIVE CO., 124 HOLBORN, E.C. 1.**

# BRITISH ODOL.

## Important Announcement.

Owing to the recent increase in the duty on immature spirit, the Proprietors of British Odol (Anglodol, Ltd.), now find it imperative to advance their prices, and true to their promise to the trade some months ago, they are increasing the profit to the retailer at the same time. The New Retail Prices are :

**2/9**

**4/6**

**7/6**

Trade terms 25 % discount off selling price, with a bonus of one bottle to each dozen ordered, according to size, for window or counter display of 14 days.

Orders of £2 and over subject to extra  $2\frac{1}{2}\%$  discount.

„ £5 „ „ 5% „

Anglodol, Ltd., will be pleased to supply gummed slips with new prices, to all holding stocks, on receipt of a postcard stating quantity required.

In order to meet the requirements of those who require a lower-priced article, Anglodol, Ltd., have introduced a Liquid Dentifrice of equal antiseptic properties with British Odol, under the name of

## ANGLODOL Liquid Dentifrice

The Retail Prices of this article are **2/6** and **4/-**

This preparation is a very high-class article and attractively packed ; it shows a good profit and is highly recommended. Prices and bonus terms on application.

# ANGLODOL, Ltd.

Odol Chemical Works - BERKHAMSTED, HERTS.





## To Star, Mortar, Anchor and Purple Key Pharmacists

We have recently added Dental Cream to the series.

All the popular varieties are available in pure tin tubes beautifully labelled and cartoned.

They are supplied in very smart outers of 1 dozen, with drop fronts and show lids. Showcards are also ready to carry their appeal to the family and the individual.

PRICES ARE—

Large Tubes	-	-	-	7/3	per dozen
Small	„	-	-	5/3	„ „

NAME AND ADDRESS ON THREE DOZEN LARGE OR  
FOUR DOZEN SMALL.

**The Goodwill**  
you are building  
up, you are build-  
ing up for yourself  
in your district !

*AYRTON, SAUNDERS & Co. Ltd.*  
**LIVERPOOL**





# Laurence's Hair Dye

is a  
**"FACE VALUE"  
LINE.**

**THE ADVERTISED  
PRICE IS THE  
SELLING PRICE.**

**Protected by the P.A.T.A.**

We have in preparation an extensive advertising scheme covering all the leading papers and periodicals.

Our new showcards and postcards as illustrated on this page (but in colour) sent on request.



Reproduction of new Showcard.

Your name and address printed free (on orders of 3 doz.) on an advertised proprietary which yields **133 % profit on the COST, or 57 % profit on the SELLING PRICE.**

Cost of 6 doz. 1/6 size at 9/- per doz. (plus bonus of 8 Bottles)	...	£2 14 0
Less 5%	...	2 8
Net cost, Carriage Paid to your door	...	2 11 4
Sale of 6 3/4 doz. at 1/6 each	...	6 0 0
<b>NET PROFIT</b>	...	<b>£3 8 8</b>

Showcards and advertising material supplied free. Colour Chart with specimens of Hair dyed in the different shades :—Raven-Black, Black, Dark Brown, Brown, Medium Brown, Light Brown, Auburn, Chestnut, Golden Blonde, on application.

Size	...	1/-	1/6	2/6	3/6	} Less	
Minimum Retail	...	1/-	1/6	2/6	3/6		} 5 %
Minimum Wholesale		7/6 doz.	9/-	15/-	21/-		

## SPECIAL BONUS.

Buyers of 3 dozen lots receive	...	...	...	3 bottles gratis
" 6	"	"	"	"
" 12	"	"	"	" 18

Sole Proprietors and Manufacturers

**C. R. HARKER, STAGG & MORGAN, L<sup>D</sup>**

*Devon Wharf, Mile End, E. I.*



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# Collective Effort produces enormous results

## UCAL MAKES YOU

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Your own Distributor

Your own Capitalist

Your own Master

Ucal is already a commercial success growing greater day by day.

Ucal is a steady and safe dividend payer to its investors and has built up substantial reserves.

Ucal provides its members with Saleable Goods produced under strict analytical control at a fair price. The Ucal goods are fair to the public and to the Pharmacist.

Ucal introduced the policy of Face Value as minimum selling price.

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Ucal products are welcomed by and have the support of a large portion of the Medical Profession.

Two thousand Pharmacists can use their purchasing power to greater advantage than an individual can.

The Ucal plan is purely co-operative, it has no attraction for the man who desires to reap without first sowing.

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Managing Director,

Ucal, Cheltenham Spa,

for full particulars. New members are accepted as quickly as present-day conditions will allow.

(National "Safety First" Poster)

The "team spirit" enters into it—and each man stimulates and inspires his neighbour. Emulation soon leads to achievement—everyone really "does his best"—which means that all do better than they otherwise would and the aggregate result is infinitely greater.

That is the "secret," if there be such a thing, of the Ucal Plan.

Ucal lives, thrives, grows, and is going to be great because it is adjusted to the motives that move men to endeavour.

There is room for YOU in

Write  
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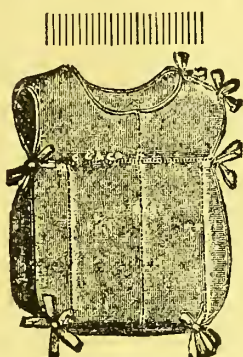
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Order in good time

# "ZUDOR" JACKETS



*Made in six stock sizes.  
Any special size made to order.*

SHOWCARDS  
AND  
ADVERTISING MATTER  
SUPPLIED  
WITH EACH ORDER.



Facsimile of Showcard.

IN TWO QUALITIES.

No.	Across Chest.	Shoulder to waist.	Cotton Wool Per doz.	Retail each.	Lamb's Wool Per doz.	Retail each.
1.	8 in.	6 in.	9/6	1/3	16/-	2/-
2.	10 in.	8 in.	12/-	1/6	20/-	2/8
3.	12 in.	10 in.	16/6	2/-	24/-	3/4
4.	15 in.	12 in.	20/6	2/6	28/-	4/-
5.	19 in.	13 in.	25/-	3/-	32/-	5/-
6.	21 in.	15 in.	30/-	3/9	40/-	5/6

Owing to the large calls we always receive in the Autumn for "Zudors" we would advise customers to order as soon as possible.

**CUXSON, GERRARD & Co., Ltd.**  
OLDBURY, near BIRMINGHAM.

# Cresp-Martineng

(Grasse, France),

Manufacturers of

## ESSENCES & PRIME

MATERIALS for MANUFACTURING

PERFUMERS,

CONFECTIONERS,

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SYNTHETICS,

ARTIFICIAL VIOLETS

(MYRIONE),

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ENQUIRIES SOLICITED. LARGE STOCKS

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Agents for  
the UNITED  
KINGDOM &  
CANADA.

## ARRIVAL OF LIMITED STOCK OF



After being for long practically without stocks, we have now just received a limited re-starting lot, which will be equitably and proportionately distributed.

### PRICES.

Retail.			Trade.
9d.	...	...	7/7 per doz.
1/3	...	...	12/8 " "
2/6	...	...	25/3 " "

Less 5% for payment at 1 month.  
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The Trade may therefore now order, through their Wholesalers or direct from

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## NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities — Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

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Telegram: "VANILLIN, CAMBER, LONDON."



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**LAVENDER (French), SPIKE LAVENDER (French and Spanish)**  
NEROLI, GERANIUM (AFRICAN and BOURBON), SANDALWOOD. PETITGRAIN (FRENCH and AMERICAN),  
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ORRIS CONCRETE and LIQUID.  
ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES  
We have Stocks in London of the most important Essential Oils and Perfumery Products.

## JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of **SYNTHETIC PERFUMES**  
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## PURE SPANISH ESSENTIAL OILS

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**ACONITE ROOT**  
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### GENUINE AMERICAN PEPPERMINT OIL

*"Columbia" Natural*  
*"Diamond White"*  
*Re-distilled.*

Finest qualities for Druggists,  
Distillers and Confectioners.

Sole Consignees in United Kingdom—

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### Immediate Delivery from Stock.

Capsicums	Condurango Bark
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The Odourless Adeps Lanæ, B.P. Manufactured by  
**THE LONDON PHARMACEUTICAL REFINERS, LIMITED,**  
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In a leading article in the "Medical Press" of June 26, 1918, occurs the following:—

"I hope that the same effort will be made to abolish Hun drugs as to get rid of Hun dyes. In one direction I am glad to find that this is being seriously attempted. One of the most important bases for ointments is lanoline. Now the English lanoline which is made by the London Pharmaceutical Refiners, Limited, of Brockley, has the merit of being superior to the old German lanoline. The B.P. allowance of fatty acids is '7, whereas this new English lanoline shows only '27. The new preparation is quite odourless, and acid fats do not develop in it by keeping. These are great merits, and show the extreme care with which the refining process has been carried out by the British refiners."

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# — SICILIAN — LEMON - BERGAMOT ORANGE - MANDARINE. — SPINELLI —

THE OILS THAT HAVE A LONG  
REPUTATION FOR QUALITY.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any  
:: :: :: analysis as to purity. :: :: ::

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# TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

## ***WE SPECIALISE IN TERPENELESS:***

Anise (Anethol)

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Bergamot

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We offer a great variety of  
**CHOICE PERFUMES**  
suitable for all markets at  
moderate prices.

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LONDON FACTORY AND DEPOT:

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*Attractive and Profitable  
Lines which Sell at Sight.*

### Norma's Eau de Cologne & Lavender Water

QUALITY PAR EXCELLENCE.  
PACKED IN EXCLUSIVELY  
DESIGNED BOTTLES & LABELS

#### PRICES:

	per Doz.		Retail
Eau de Cologne, 2 oz.	25/6	...	3/-
" 4 oz.	45/-	...	5/6
Lavender Water, 2 oz.	28/6	...	3/6
" 4 oz.	52/6	...	6/6

Also in larger sizes *pro rata*.

#### SPECIAL QUOTATIONS for QUANTITIES

From your Wholesale House, or

**WALDEN, WALDEN & CO.**

Manufacturing Perfumers,

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THE name Zenobia is so intimately associated with perfection in perfumery, that the buying public eagerly welcome the Toilet Preparations also manufactured by the firm of Zenobia, Ltd. Chemists will find that the name

## ZENOBIA

alone is sufficient to ensure ready sales, while the pleasure found in the use of Zenobia Specialities in its turn ensures satisfied customers. We particularly recommend

ZENOBIA BRILLANTINES.	ZENOBIA TOILET POWDERS.
-9d. size.....6/9 per doz.	1/3 size.....10/6 per doz.
1/6 " " 13/6 " "	2/9 " " 24/- " "
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	5/6 per doz.

† Subject to usual discount.

A complete Catalogue will be forwarded on application to—

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# It's so Simple to make your own Toilet Preparations

with

# "PREEMO"

## CONCENTRATED ESSENCES, FLORAL OTTOS AND COMPOUNDS.



The superior qualities of the "Preemo", Concentrated Essences, etc., are due to long years of study and patient experiment by a famous French Perfume Compounder and Distiller. They are specially distilled for the manufacture of Toilet Preparations, and the secret of their great popularity with the Trade is the fact that they are extremely effective while simple and easy to use.

Nos. 2,000, 3,000 and 4,000 "Preemo" Essences 12/6 per 100 grams (equal to 3½ ounces). £6 per kilo (equal to 36 ounces).

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Special Quotations for Large Quantities.

EVERY Chemist who desires to adopt the easiest and most profitable way of making up Toilet Waters, Hair Washes, Lotions, Brilliantines, Perfumes, etc., should use the "PREEMO" Products.

"PREEMO" Concentrated Essences, Floral Ottos and Compounds have a world-wide reputation, and in matters of strength, quality and odour they are second to none. Every Essence has the true odour of the natural flower. They are simple to mix. A gallon of any Toilet Preparation can be made up with the "PREEMO" Essence in a few minutes.

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*ALL bona-fide trade inquiries for Catalogues, Samples, etc., are promptly responded to.*

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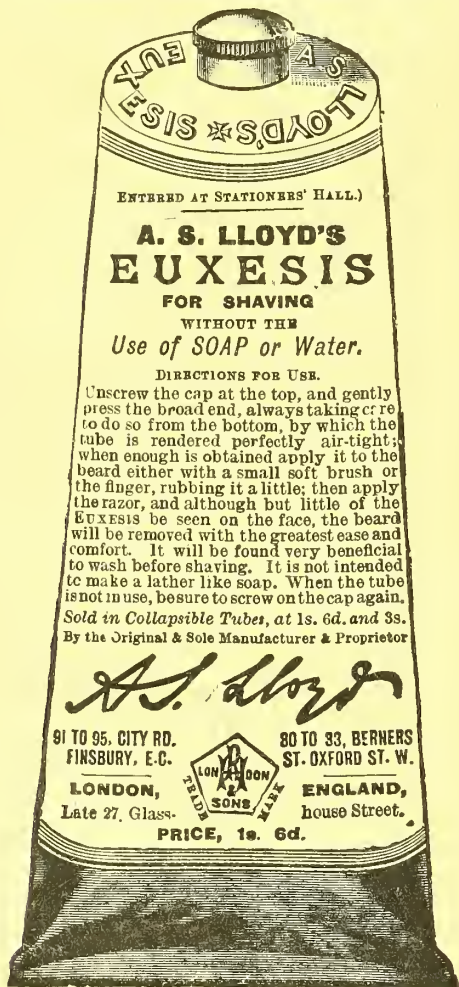
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# A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

11/6 per dozen; 11/3 by the 6 dozen.  
Retail at 1/6 per tube; 3/- size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: R. HOVENDEN & SONS, LTD.,  
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For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

1 1/2 dozen 7 1/2d. selling for 11 3  
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For 10/- cash with order, carriage paid. 20 3  
7 1/2d. and 1/- " " 5/6 and 9/- per dozen.

From London Wholesalers.

Direct Orders value £5 subject to 10% discount and 1 doz. 1/- size bonus for window display, showing 38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists,  
LOWER UNION ST., BRISTOL.

## SPECIAL OFFERS SURPLUS STOCKS.

BOTTLES.

10, 20 and 40-oz. Wide Mouth Blue.

Hexagon Rod-stoppered.

Screw-cap Tablet.

ACID CARBOLIC. OL. SANTAL FLAV.  
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OFFERS INVITED.

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Our lines are genuine.

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Nail Polish  
Cloth Cleaners  
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Telegrams: Sussex.  
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Export to all Countries.

Sell the article that pays for itself.

Best attention to all orders received.



# A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

## CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—  
A. S. Lloyd in Black Ink, and that of his Widow,  
Aimée Lloyd, in RED. Refuse any other.

**Sole Manufacturers and Proprietors:** **AIMÉE LLOYD & CO.**  
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### FROZOCLONE

(The original solid Eau de Cologne).

(Regd.)



THE WORLD'S GREAT  
PERFUME AND  
REFRESHER IN  
SOLID FORM

Retails (P.A.T.A.)  
Minimum - 3/-  
giving at least 10d. Profit  
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26/- - - per doz.

FROZOCLONE is a convenient form of the finest Eau de Cologne, refreshing when rubbed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motor-ing.

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A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

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The Ideal Fruity Laxative in Pastille Form.  
DELICIOUS. RELIABLE. EFFECTIVE.

Retail (P.A.T.A.) Minimum 2/3  
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## Series of Toilet Requisites now consist of:

<b>GIBBS' SHAVING SOAP</b> —Cold Cream, in enamel sticks	Retail Price 7d. & 1/-
In nickel sticks... ..	1/3
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Each 3d. packet contains three shampoos.	
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All the above are well advertised and show you splendid profits.  
Write for our Price List if you have not received one already.

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THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

**THE WAVCURL CO.,**  
FULWOOD HOUSE, HIGH HOLBORN, W.C.1

Per doz.	1/6 Duvetine (Superfluos)	Per doz.
1/6 Wavcurl (in packets) ... 9/-	Hair Remover ...	9/-
2/9 Wavcurl (in bottles) ... 21/-	1/6 Wavcurl Hair Tonic	
1/6 Complexion Cream ... 10/-	(9 in Powdered Form) ...	9/-
2d. Shampoo Powder ... 15/-	1/6 Eyelashine ...	9/-
gross.	Showcards for Window	no
	Dummies for Show	charge

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.



# The Popularity of "Harlene Hair Drill."

EVERY DAY EMPHASISES THE NECESSITY  
FOR MEETING THE PUBLIC DEMAND.

The widespread publicity initiated by the Proprietors of "Harlene" over a number of years and vigorously maintained right up to the present time, in spite of many difficulties and increasing expense, continues to draw an immense response from all parts of the country. Thousands of sample parcels are dispatched daily, thus increasing the number of possible customers to retail stores everywhere.



**NOTE**—The Contents of the Free HARLENE OUTFITS comprise:

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| 1. A Trial Bottle of Harlene. | 3. A Trial Bottle of "Uzon" Brilliantine. |
| 2. A "Cremex" Shampoo Powder. | 4. Book of Instructions.                  |

**FOLLOW THE TIDE OF SUCCESS.**

Watch the great Free Gift Advertising Campaign that brings the Customers to your Shop.

**HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS?**

*No Chemist or Store can afford to be without  
: this unique line of Toilet Preparations :*

"HARLENE" FOR THE HAIR	"ASTOL" FOR GREY HAIR
"UZON" BRILLIANTINE	"CREMEX" SHAMPOO POWDERS
"ASTINE" VANISHING CREAM	"ASTINE" SHAVING STICK
"ASTINOL" AROMATIC FLUID.	

For Particulars, Terms, &c., write to

**EDWARDS' HARLENE, Ltd.,** 20, 22, 24 and 26 LAMB'S CONDUIT  
STREET : : LONDON, W.C. 1.

# DEARBORN

LIMITED

37 Gray's Inn Road, London, W.C.

## Toilet Specialities.

		Price per dozen to Retailer	Selling Price P.A.T.A.
PILENTA SOAP	-	10/-	1/-
A complexion Soap.			
PROLACTUM	-	10/-	1/-
For the lips.			
PARSIDIUM JELLY	-	10/-	1/-
For wrinkles.			
ALLACITE of ORANGE	-	22/6	2/6
A dressing cream. BLOSSOM			
BORANIUM	-	22/6	2/6
A hair tonic.			
CLEMINITE	-	22/6	2/6
For a face lotion.			
COLLIANDUM	-	22/6	2/6
For a face tint.			
TEKKO PASTE	-	22/6	2/6
Camphor cream.			
SILMERINE	-	22/6	2/6
Hair curling fluid.			
PERGOL	-	22/6	2/6
A deodorant.			
STALLAX	-	22/6	2/6
For a shampoo.			
JETTALINE	-	31/6	3/6
For clearing the skin.			
PHEMINOL	-	36/-	4/-
A depilatory.			
MENNALINE	-	36/-	4/-
For the eyelashes.			
MERCOLIZED WAX	-	31/6	3/6
A face cream.			
STYMOL	-	36/-	4/-
For oily complexions and blackheads.			
BARSYDE	-	22/6	2/6
Dandruff eradicator.			
TAMMALITE	-	22/6	2/6
For grey and faded hair.			
LIQUID PERGOL	-	31/6	3/6
To check excessive perspiration locally.			
BICROLIUM	-	22/6	2/6
For whitening the hands.			
HARAPOSA	-	22/6	2/6
Nut oil shampoo.			

STOCKED BY ALL WHOLESALE HOUSES

### COLONIAL DEPOTS AND AGENCIES.

- AUSTRALIA:**  
ALL WHOLESALE and  
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- NEW ZEALAND:**  
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DEARBORN, Ltd., CALLA SALTA, 264, Buenos Aires.

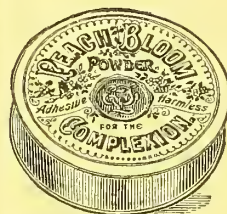


## Whitecross Baby Powder

British Make throughout.

In smartly decorated tins, with  
sprinkler and dome top.

P.A.T.A. 10½d.; 6/- per doz.



## Peach Bloom Face Powder

British Make throughout.

No advance in price.

In various tints.

P.A.T.A. 7½d.;

3/6 per doz.

## Whitecross Tooth Powder,

British Make throughout,

being a first-class article, packed in smartly decorated tins,  
two sizes, 3/6 and 5/3 per dozen.

The Whitecross Baby Powder and Tooth  
Powder have both obtained the Certificate  
of Merit of the Institute of Hygiene.

**Menthol and Menthol & Eucalyptus  
Snuff,** in special decorated tins. On the P.A.T.A.  
at 4½d.; 2/9 per dozen.

## Tooth Paste in collapsible tubes.

All varieties, 5/- and 6/9 per dozen; also a special new  
line "Antiseptic," each in carton, 5/3 per dozen.Lanoline, Oatmeal Cream, Witch Hazel, Antiseptic  
Honey Jelly, etc., in tubes, 5/- and 6/9 per dozen.

Bay Rum, Bay Rum & Cantharides,  
Brilliantine, Cold Cream, Eau de Quinine,  
and dozens of other lines in Price List,  
which will be sent free on application.

**Decorated Tins** and Plain in variety, all sizes, from  
2 dr. upwards. Whitecross Ointment Tins, Vaseline,  
Fuller's Earth, Violet Powder, Tooth Powder, etc., etc.

**Ready Again.**—Ointment Tins with buyer's name round  
edge, and plain centre for labels. Write for particulars.

## Madam Var's Henna Shampoo,

very smart wrapper in eight colours, loose 22/- per gross,  
one show box with each gross. Packed seven in a box,  
13/3 per dozen boxes.

*Special discounts to large buyers.*

The CHEMISTS' MANUFACTURING Co. Ltd.

*with which is incorporated*

## SHIRLEY BROS.

Whitecross Works, Rockingham Street, S.E. 1.



# The Question of Quality

The most important item in the value of a pharmacist's goodwill is his reputation for supplying everything of the first quality. This vital consideration should be guarded in every possible way.

A dentifrice is an article so generally used, and so important in relation to the public health and efficiency, that it is well worth while for the chemist consistently to recommend and identify himself with the product possessing the highest credentials of all.

## **Euthymol** **TOOTH PASTE**

meets every requirement. It is a scientific product, which has done infinitely more than any other to popularise oral hygiene. Its reputation rests primarily on the recommendation of dentists and bacteriologists, but their opinions have been endorsed in the most practical manner by the general public.

When you sell and recommend Euthymol Tooth Paste you know that you are creating goodwill and paving the way for repeat orders. Incidentally, you secure a satisfactory margin of profit.

*Send a card to-day for  
particulars of special offers.*

**PARKE, DAVIS & CO.**

50-54, Beak Street, LONDON, W. 1.

*Laboratories :: Hounslow, Middlesex.*

**O**UR offer of a 1/6 carton of Raymet Shampoos free on condition that a showcard was displayed in the window had an enormous response.

For this rush we were prepared, and we still have a few cards available—one of which and a 1/6 carton of Raymet Shampoos will be willingly sent to any Chemist who has not yet applied.

Raymet Shampoos are worthy of the premier place in your window. Attractively packed—well advertised—on the P.A.T.A.—and a meritable preparation—they give that satisfied feeling which is only experienced when handling goods you know will be appreciated.

The profit on Raymet Shampoos bought on bonus terms is over 100% on cost.

**RAYMET & CO. LTD.**  
507-509 HARROW RD., LONDON, W.10



# VEN-YUSA

## Shampoo Powders

DAINTY  
ATTRACTIVE  
PROFITABLE

AND

Well Advertised



**PRICES**—3d. size, 11/- for carton  
containing 6 dozen Powders.

1/6 size, 13/6 per dozen  
cartons

# C. E. FULFORD, LTD., LEEDS.

# KOPATINE FOR THE HAIR

For the Chemist Kopatine is a profitable line. The packings are exceedingly attractive—the best in the trade. Because of this alone, Kopatine sells at sight.

Kopatine is advertised regularly in the leading publications your customers read, including the Lady, Queen, Ladies Field, Lady's Pictorial, Vogue, Gentlewoman, Weldon's, Nash's Magazine, Strand Magazine, Coming Fashions, Daily Mirror, London Mail, Leach's, Sketch, Tatler, &c.

Write for wholesale list.

Of Osborne, Garrett & Co., Ltd., and usual Wholesalers, or direct from—

Kopatine Cie (Dept. 22), 34 Buckingham Palace Road,  
London, S.W. 1. Telephone: Victoria 2648.

**Kopatine No. 1.**—A high-class plain shampoo. Retail at 3d. per packet.

**Kopatine No. 2.**—A splendid Henna shampoo. Retail at 1/- per packet.

**Kopatine Al-Khanna.**—A permanent hair-colouring shampoo. Retail at 6/6 per case.

**Kopatine Instantaneous.**—A liquid hair colouring (6 primary shades from blonde to black). Retail at 6/6 per case.

*Link your Shop with our advertising by making a Kopatine display.*



## IMPORTANT.

**TETLOW'S**

### "SWAN DOWN" FACE POWDER.

Please note that owing to the great loss on American Exchange, we are compelled to advance the price of "SWAN DOWN" FACE POWDER as under:

**7/- per dozen. P.A.T.A. Retail Price 10½d. per box.**

This price gives a still larger profit to the Retailer.

**FULL STOCKS WILL SHORTLY BE AVAILABLE  
direct or through your Wholesale Houses.**

A larger Advertising Campaign is about to start in all Ladies' and other papers.

## HENRY C. QUELCH & CO.

4 & 5 Ludgate Square, LONDON, E.C.4.





No. 7 Tube 4 x 1, per doz. 5/- P.A.T.A. 8½d,  
No. 9 Tube 4 x 1, per doz. 7/- P.A.T.A. 1/-.

## THERE'S A CHARM

about knowing and selling the best that money can buy, especially to the discriminating man who won't allow anything to deter him from doing the BEST he can in quality and price to satisfy his customers. It is to him that we appeal to try out that everyday emollient.

## CHRISTY'S COLD CREAM

It is so bland, smooth, white and delicately perfumed that it pleases the most fastidious. Put up in a pretty "two blue" carton, 6 in a self-selling swing-back box.

**POSITIVELY DEPENDABLE  
Never goes Rancid**

and well advertised to the Public. Like its unimpeachable quality, its P.A.T.A. profit is worth while.

**LET US SEND YOU A  
CARRIAGE PAID LOT**

ENG	WALES	SCOTLAND	IRELAND
<b>60/-</b>	<b>70/-</b>	<b>100/-</b>	<b>100/-</b>
ORDER	ORDER	ORDER	ORDER

THOS. CHRISTY & CO.  
OLD SWAN LANE, E.C. 4.

## Your Packets & Parcels

||

WILL BE NEATER AND  
STRONGER IF THEY ARE  
FASTENED WITH

## "IRIS" GUMMED TAPE

||

IT IS CHEAPER AND BETTER  
THAN STRING OR WAX.

IT EFFECTUALLY PREVENTS  
PILFERING OR INTER-  
FERENCE WITH THE CON-  
TENTS OF A PARCEL.

IT CAN BE SUPPLIED  
PRINTED WITH YOUR NAME  
AND ADDRESS AND ANY  
ADVERTISING MATTER  
DESIRED.

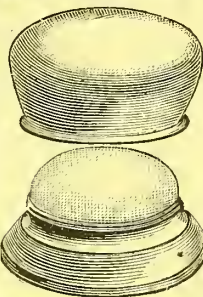
**PRINTED GUMMED TAPE**  
IS ALWAYS  
**PRODUCTIVE ADVERTISING**

Write for Samples and Prices—

**R. A. STEPHENSON, Ltd.** 130 Queen Victoria St.,  
LONDON, E.C. 4

Telephone: CITY 2577.

## MENTHOL CONES



Newly Revised Prices.  
Prompt supplies from  
Stock.

MAKERS FOR THE  
WHOLESALE TRADE

**M. J. FECHER, Ltd.**  
ILEX WORKS  
NORTHWOLD ROAD  
STOKE NEWINGTON, N.16

## "CORRUGATED" ROLLS AND BOXES (Collapsible)

Cut Pieces. Cartons for Packing. Waxed Papers.  
Greaseproof Papers. Waxed Corrugated. Tinted  
Corrugated. Strong "Outers."

**Complete Packing Schemes. Keenest Prices.**  
Inquiries Welcomed.

**IMPORTANT.** Address all letters to:

**I. M. RICHARDSON, Manager.**

**GUILDHALL CORRUGATED PACKING MATERIALS CO.**  
Guildhall Buildings, Navigation Street, Birmingham.

# CARMOL LTD. Washington Street BIRMINGHAM

## SPECIAL LINES.

### TOOTH POWDERS

CARBOLIC

WHITE CARBOLIC

OXYGEN

SMOKERS'

Small size  $1\frac{1}{3}$  doz., 14/- gross

Large „  $3\frac{1}{3}$  „ 36/- „

*Special Quotations to large Buyers.*

**Attractively Decorated Tins**

### TOOTH PASTES

TUBES.

CARBOLIC

CHERRY

ARECA NUT

THYMOL

FORMALIN & MINT

5/- doz. - - 57/- gross

*Attractive Designs.*

Own Name on 3 dozens.

**Show Outers Supplied.**

### IF YOU PUT A CARTON

in your windows you won't complain of sales or profit. There positively is no better 3d. line advertised or otherwise; the wonderfully attractive "boxlets" and triple-flap show carton are irresistible. Half contents are HERB and HENNA, balance EGG and HENNA Shampoos. Write "SAP." on a postcard to-day.

**LEIGHTON LABS.**

# SAPINOL

## The RESTORATIVE SHAMPOO

PRICE YOUR P.A.T.A.  
PER P.A.T.A. PER  
GROSS PROFIT BOXLET

**24/- 100% 3d.**

### JUST WRITE SAP. ON

one of your postcards and send it to us. In return we send a "trade-winning," triple-flap show outer with 12 dozen 3d. Boxes (P.A.T.A.) and 4 dozen Bonus, with other show material, carriage paid. The "Sapinol" advertising campaign has already started, so write letters "SAP." for once.

35 Gray's Inn Road, W.C. 1.

**For LARGE BUYERS**

**For SHIPPERS**

# Good Toilet Goods

SHAVING STICKS,  
BRILLIANTINES,

DRY SHAMPOO (Liquid and Powder), BAY RUMS, TOILET  
PARAFFINS, LIME CREAMS, POMADE HONGROISE,  
TOOTH POWDERS, DENTAL CREAMS, VANISHING  
CREAMS, SHAMPOO POWDERS, and all TOILET GOODS.

SAMPLES AVAILABLE.

C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL.





## OUR GUARANTEE to the Public and to You.

Icilma Cream is now as perfect as in pre-war days. During the war manufacture was only carried on under enormous difficulties, but now we can offer you the world-renowned pre-war Icilma Cream.

**Splendid Advertising** is now appearing in the leading London and Provincial newspapers and periodicals. *Will send more people than ever to YOUR shop* to get Icilma Cream and our other Toilet Preparations. All you have to do is to keep them well to the front and show the dainty showcards we send to help you.

**Free Samples and Beauty Booklets** are now included with every display order as under :—

£6 order and over	....	....	6 doz. each.
Under £6 order	....	....	3 doz. each.

Samples are packed in an attractive blue counter box.

# Icilma

Cream

*Price list and display terms post free on request.  
Stock our goods and share our success.*

## Supplies / now Normal Pre-War Quality Guaranteed

Manufacturers — Icilma Company, Limited,

Sole Distributors—International Icilma Trading Co., Ltd.,

37, 39, 41, 43, King's Road,  
ST. PANCRAS, London, N.W.1

T 4—27/9/19.

# Turn 8/- into 24/-

IN ORDER TO INTRODUCE OUR WELL-KNOWN

## 2d. "WYONA" HAIR SHAMPOO

UNIVERSALLY OVER THE UNITED KINGDOM,

To the first 1000 Chemists or Druggists sending  
8/- Postal Order or Cheque we will send

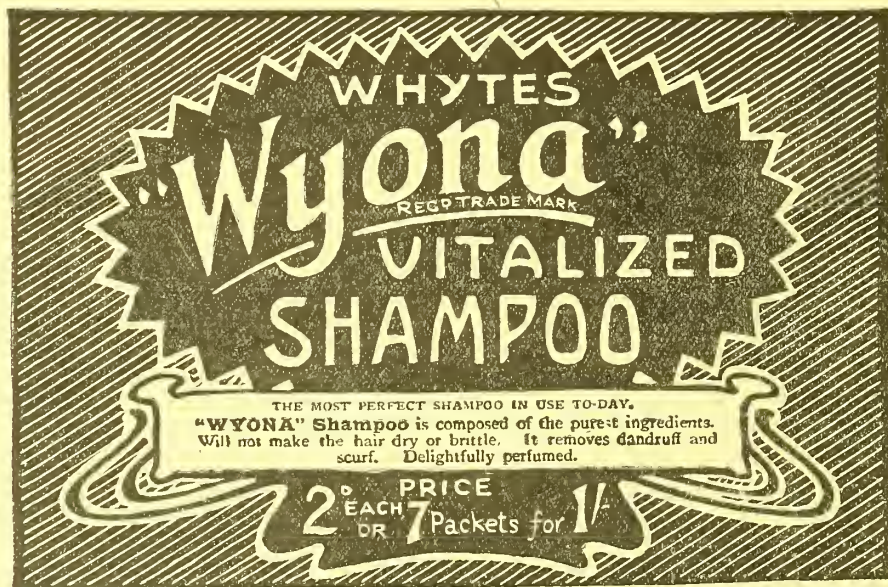
1 gross 2d. "WYONA" Hair Shampoo

in free package, post paid.

Get it to-day. Strikingly got up in bronze blue and distinctive red. Here is  
an exact reproduction of the

## 2d. "WYONA" HAIR SHAMPOO

Sells in a few weeks' time without effort.



Send now to the exclusive Proprietors and Sole Manufacturers:

### NI-VERRE CHEMICAL CO.

5, 6 and 7 Ormeau Avenue, BELFAST (Ireland)

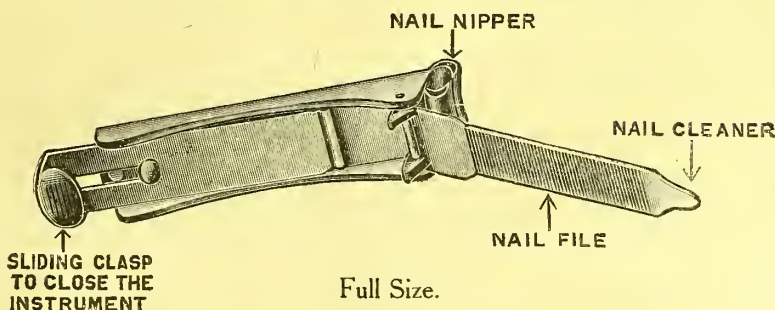


# FIRST ARRIVAL OF A NEW NAIL NIPPER

MANUFACTURED BY  
THE MANI-CLIP CO., - NEW YORK



PER **13/6** DOZEN.

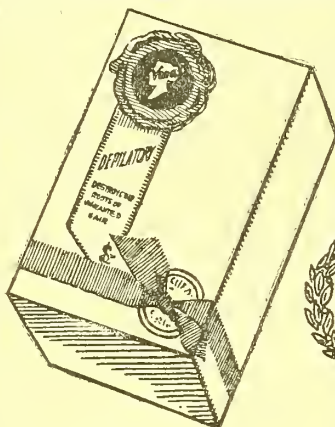


**SPECIAL TERMS TO WHOLESALERS AND SHIPPERS.**

SOLE AGENTS

## Henry C. Quelch & Co.

4 & 5 LUDGATE SQUARE, LONDON, E.C. 4.



## Vena Depilatory

is 1 in 100; it hasn't that characteristic disgusting odour of the other 99. This is a selling point which scores with most ladies who object to that "tell-tale" smell. It retails readily at 4/- minimum.



# Vena Toilet Creations

have distinction in virtue and packing, and give an air of refinement to the Pharmacy. They repeat by giving more than ordinary satisfaction. They are advertised in the ladies' papers and magazines.

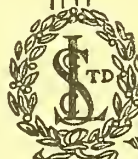
TERMS: 33 1/3 % and 2 1/2 %, with bonus of 13 to the dozen, Cash with Order. Carriage paid United Kingdom. Send for complete list.

**Scott's Chemical Co.**  
47 Huddleston Road,  
Willesden Green,  
LONDON, N.W. 2.  
Telephone: Willesden 77.



## Nix

A dainty cream for dainty women. Instantly removes all perspiration and body odours. Retails 2/- minimum. A splendid seller.



## Wavine

A non-sitcky dressing which gives a lasting wave to the Hair. Minimum retail 2/6.



# ODOR-O-NO

The Anti-Dress Shield Toilet Water.



Effectively corrects  
excessive  
perspiration.

Extensively advertised  
in American and  
English periodicals.

SHOWS GOOD PROFIT.

Distributing Agents:

**The AMERICAN  
DRUG SUPPLY CO.**

6 Northumberland  
Avenue,  
LONDON, W.C. 2.

# SELLS QUICKLY AND Brings Custom



VIOLIV ICE, for Chapped Hands, Frostbite, etc., has secured a ready sale and many repeat orders. Every Chemist should stock it.

Attractively packed in tastefully coloured cartons, suitable for counter and window displays. Showcard and window-bills free with each order. The Showcard sells the goods.

A profitable line, retailing at 4 1/2d. per packet, and costs 36/- per gross, with a Free Bonus of 3 dozen with each gross for cash with order. Half-gross lots with 1 dozen bonus 18/- carriage free. Prompt and quick dispatch.

VIOLIV ICE is so good that it makes a customer, and is noted for its repetitious powers.

**THE VIOLIV MANUFACTURING CO.**  
26 Haymarket Terrace, EDINBURGH.



# MOUSLEY'S 'BEAVERPUFF'

Patent Nos. 4931 and 4932.

*The Ladies' Natty Friend.*



Just out. Demand great.  
Delightfully soft in use.  
Superior to artificial Puffs.  
Write for Prices and Terms

**F. A. MOUSLEY**  
(MAKER)

Priest Bridge, Mortlake,  
London, S. W. 14.

**SALES  
BEAT ALL RECORDS.**

## INDIAN PERFUME BRICK

**KEEPS AWAY MOTH.  
LASTING & FRAGRANT.**



**FOR LINEN CUPBOARD AND WARDROBE.**

*Retail Price, 6d.*

Of the Makers:

**ALBERT WILLIS & ARTHUR, Ltd.**  
6 Mortimer St., London, W.  
AND ALL WHOLESALERS.

# POUDRE MALACEINE

MANUFACTURED BY  
**PARFUMERIE MONPELAS,  
PARIS.**



No. 67, Small ... 25/- doz.  
,, 68, Large .... 35/- doz.

*An extensive Advertising  
Campaign in all the  
principal Society Journals  
is now proceeding.*

Write for SPECIAL TERMS and  
particulars of other MALACEINE  
PRODUCTS to the Sole Wholesale  
Agents for Great Britain and Ireland:

**WILLIAM TOOGOOD, LTD.**  
77 Southwark Street,  
LONDON, S.E.1.

*Order Early and Avoid Disappointment.*

# PEPS

NOW SUPPLIED

## ONLY IN TIN BOXES

AND EACH TABLET  
SEPARATELY

## WRAPPED IN TIN FOIL

*Any Chemist Desirous of Exchanging  
Old Stock (in Cardboard Boxes) can do so.*

---

### C. E. FULFORD LTD., LEEDS.

*Irish* { Messrs. T. McMULLAN & Co., Victoria St., BELFAST.  
*Agents* { Messrs. MAY, ROBERTS & Co., Ltd., Westmorland St., DUBLIN.



**LABORATORY  
OF GENERAL PHARMACOLOGY,  
8, Rue Vivienne, Paris.**

**LONDON AGENTS :  
WILCOX, JOZEAU & Co., 49, Haymarket, S. W.**



**CHAPOTEAUT'S  
CAPSULES of  
PHOSPHOGLYCERATE  
of LIME.**

**THE BEST TONIC FOR  
FORTIFYING AND BUILDING UP  
THE NERVOUS SYSTEM.**

*Sold by all Chemists.  
Wholesale: 8, Rue Vivienne.  
PARIS.*

**MORRHUOL CHAPOTEAUT**



**CAPSULES**

MORRHUOL DE CHAPOTEAUT  
is extracted from cod-liver oil, and  
contains all its efficacious prop-  
erties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,  
restores the appetite, and gives force to  
feeble persons.*

**SOLD BY ALL DRUGGISTS.**

**CHANDRON'S  
DROPS**

**(Gouttes des Colonies)**

**A harmless antiseptic  
preventative against CHOLERA-  
FERMENTATION - INDIGESTION  
and other intestinal disturbances.**

**SOLD BY ALL CHEMISTS**

*I find the odor exquisite and  
all my charms have been  
by the name. To, I prefer  
Mary Garden*

**PARFUM  
MARY  
GARDEN**

**RIGAUD**  
PARFUMEUR  
16, RUE DE LA PAIX  
PARIS

**LONDON AGENTS  
HEPPELL & CO., 164, Piccadilly, W.**



AN **IMPORTANT** ANNOUNCEMENT  
**TO THE TRADE**

NEW PACKING and PRICES for

**Chymol**  
(KIMOL)

THE FOOD THAT BUILDS.

In force from OCTOBER 1, 1919.

Chymol will be supplied, packed in glass jars of two sizes, as follows:

Small Size.	Retailed at 1/6.	Price 14/- per doz.,	less 5 %
Large Size.	3/3.	Price 32/-	„ less 5 %
Hospital Size.	12/6.	Price 126/-	„ less 5 %
In Tins.			

CARRIAGE PAID ON ORDERS of £2 net value and over.

**CHYMOL is on the P.A.T.A. list.**

**Your Profits are generous and assured.**

Chymol consists of Red Bone Marrow, perfectly Emulsified Animal Fats and Barley Malt. It is easily digested and perfectly assimilable. Chymol is the ideal preparation from Infancy to Old Age. It is invaluable in cases of Marasmus, Malnutrition, Anæmia, Nervous Breakdown, and all those indefinite feelings of malaise arising from a disordered digestive and nervous system.

Have you received your copy of our Circular to the Trade.  
*If not send a P.C. to-day for it.*

**The Chymol Co. Ltd., Queen's House, Kingsway, London, W.C.2.**



# Important Warning to the Trade

THIS WINTER WE AGAIN EXPECT A SHORTAGE OF  
SANATOGEN & FORMAMINT, etc.

To avoid disappointing your customers you  
should place big orders as quickly as possible.

IN the first place, a recurrence of the Influenza Epidemic is anticipated—and you know what *that* will mean with Formamint and Genasprin.

Secondly, the coming milk famine is bound to restrict our production of Sanatogen—also of Formamint and Cystopurin, on account of their milk-sugar basis. (Cystopurin, by the way, is greatly in demand from doctors, owing to the increase in venereal diseases.)

Thirdly, our rapidly growing export trade has prevented us from conserving stocks during the summer months, as we have hitherto done; while we cannot increase our Genasprin output until the new factory is ready.

Fortunately, the summer sales of Sanatogen have been only normal, but they are now leaping up again; and, its nutritional properties being so well known, there will probably be a record boom in Sanatogen (also in **Sanatogen Chocolate**) immediately the food shortage is felt.

That is what may be expected, then—an abnormal demand for our lines, coupled with an equally abnormal shortage; and the retailer who acts promptly—by getting in big stocks while they are still obtainable—will reap the benefit of his foresight.

**GENATOSAN, LTD.** (British Purchasers of the Sanatogen Co.)

12 CHENIES STREET, LONDON, W.C.1. (Chairman: The Viscountess Rhondda.)

*The most eminent Physicians and Surgeons  
prescribe "OPPENHEIMER" products  
because of their reliability.*

*Medical men agree that  
there is no more valu-  
able Tonic Food.*

# "ROBOLEINE"

*Children agree that  
there is none so  
palatable.*

The Chemist who doesn't maintain his  
stock of "Roboleine" makes a mistake.

P.A.T.A. PRICES SHOW YOU A HANDSOME PROFIT.

Write for Special WINDOW DISPLAY Terms giving  
you a Profit of 50%.

# "MAGLACTIS"

*"The Cream of Magnesia."—Lancet.*

Neutralises Stomachic Acidity without Evolution of Gas.

P.A.T.A. Terms yield you a Profit of 35 %, and  
Special WINDOW SHOW Terms 45 %

# "BI-PALATINOIDS"

OF NASCENT

FERROUS CARBONATE (No. 500)

*Entirely Supersede Blaud Pills.*

*NO Chemist can afford to be without them.*

**OPPENHEIMER, SON & CO., LTD.**

179 QUEEN VICTORIA STREET, LONDON, E.C. 4

*Entirely British House since Foundation in 1891.*



On the List of  
Government  
Contractors.



TRADE MARKS.

Telephone No. 1831 HOP.  
Telegraphic Address: "Eklips London."  
A B C Code, 5th Edition.

AWARD: LONDON, 1881—"For Excellence of Quality."

**H. E. STEVENSON & Co.**

(H. E. STEVENSON)

Emulsion Specialists and Manufacturing Chemists,  
122 GREAT SUFFOLK STREET, LONDON, S.E. 1.

Mr. STEVENSON was for many years a Director of BAISS BROTHERS & STEVENSON, Limited.

**1880.**

**1919.**

# COD LIVER OIL EMULSION

"4 Medals" Brand.

THE SUPERIORITY OF OUR EMULSION is largely due to the special base used, the result being a creamy, palatable and inseparable preparation, readily taken by children, and remaining unchanged for years. We have samples, seven years old, showing only slight separation even after this lapse of time.

*Present prices subject to fluctuations.*

## COD LIVER OIL EMULSION WITH HYPOPHOSPHITES 33 %.

4, 6, 8, 12, 16, 24, 32 oz.  
11/- 14/- 17/- 23/- 29/- 42/- 55/- per doz.

## CREOSOTED EMULSION WITH HYPOPHOSPHITES

In 8-oz. W. G. oval bottles, wrapped, 17/6 per doz.  
A most attractively labelled line.

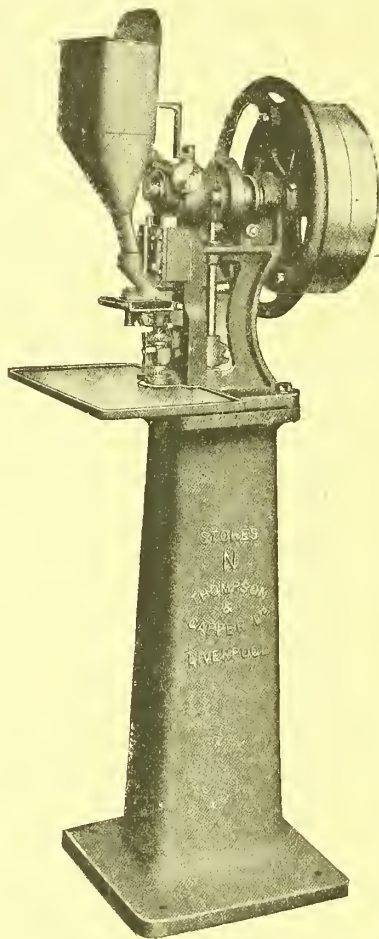
Cartons are extra if required, and having regard to the enormous value of Cod Liver Oil, and all raw material at present, our quotations will be found moderate.

Special quotations for the Emulsion in Bulk.

# STOKES "N" TABLET MACHINE

## IMMEDIATE DELIVERY.

**T**HIS MACHINE is designed to answer the demand for a light, high speed TABLET COMPRESSOR, suitable for wholesale work. The adjustments are easily made, without the use of wrenches, and the machine is almost noiseless. Its capacity is 135 tablets per minute, from  $\frac{1}{8}$  inch to  $\frac{1}{2}$  inch in diameter. Two sets of Punches and Dies with each machine.



We make any desired shape of Punches and Dies for all makes of Tablet machines.

All Punches made of  
**BEST STEEL.**

We also make them of Phosphor Bronze, "Delta" Metal, or Ivory, for Compressing Corrosives.

FULL DETAILS OF THIS AND OTHER  
STOKES MACHINES MAY BE HAD FROM

# THOMPSON & CAPPER, LTD.,

Sole Agents for F. J. STOKES MACHINE CO.

## MANESTY BUILDINGS, COLLEGE LANE, LIVERPOOL.

Telephone—Royal 2060 (Pte. Branch Exchange).

Telegrams and Cables—"Sanitas Liverpool."  
ESTABLISHED 1843.

Code—5th Edition, ABC.





# The House of **BAISS**

---

established in London nearly a century ago, is now one of the foremost houses for the Manufacture and Supply of

**FINE CHEMICALS**

for Medicinal Purposes.

**DRUGS.**

**PHARMACEUTICAL PREPARATIONS**

of All Kinds.

**ESSENCES and ESSENTIAL OILS.**

**HOSPITAL EQUIPMENT and  
SURGICAL INSTRUMENTS**

etc. etc.

*Quotations given, and goods Packed for Shipment to all parts of the World.*

---

**PRICE LISTS IN VARIOUS LANGUAGES.**

---

## **BAISS BROTHERS & COMPANY, Ltd.**

*Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments.*

Contractors to His Majesty's Government ; the Crown Agents for the Colonies ; various Foreign Governments ; and the principal Hospitals and Institutions at Home and Abroad.

**Grange Works, 174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E. 1**

Drug and Herb Farm : CARSHALTON, SURREY.

# BIDWELLS' LTD.

## RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn, -	18/-
Mitre - - -	14/-
Elephant - - -	12/-
Anchor - - -	10/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes.

A selected £10 parcel of Hair Brushes from 30/- to 100/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

TRADE

MARR.



SURGICAL DRESSINGS AND CHEMISTS' SUNDRIES

JUST RECEIVED.

CONSIGNMENTS OF

from  
**Tooth Brushes 4/9**

dozen.  
**Hair Brushes 20/-**

dozen.

EARLY INQUIRIES SOLICITED.

WRITE OR PHONE—

**ARTHUR BERTON, LTD.,**

Manufacturers,

Offices and Warehouse: **15-17 Worship Street, LONDON, E.C. 2.**

Telegrams:

Phones:

"Aybelim, Finsquare, London."

London Wall 507, City 998.

Natural Essence  
of Peppermint.

# DELECTA

Twice Rectified.

French Manufacture.

The best for Confectionery and for makers of Dentifrices, Peppermint Essence, &c.

**M. GILBERT, VINCENNES (SEINE).**

Selling Agent for the entire World.

## The Evan-Williams

Always in Great Demand.  
Price List on Application.

The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.

ORIGINAL  
HENNA

## SHAMPOO.

# BOTTLES

CANNONS,  
BRILLS, LIMES,  
PERFUMES,  
BAY RUMS,  
KALIS, CARBOYS

WHOLESALE ONLY—PROMPT DELIVERY.

**E. DUNCAN DORING, 7 King St., Cheapside, E.C. 2**

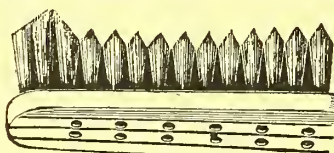
Telegrams: "Doringlasso, Phone. London."

Telephone: City 4600.

**ROBERT ADDIS & SON,** — Tooth Brush Manufacturers, —  
London Brush Works, London Fields, N.E.

The "ASEPTIC" or "PROPHYLACTIC."

When not in use, a Tooth Brush should not be allowed to remain wet, or it becomes offensive. The advantage of this Brush is—it can be hung up to drain, allowing the air to dry and purify it.



REGISTERED NO. 593,367.

ENGLAND

VENTILATED, IMPROVED.

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4/6 6/6 9/- 12/6 15/- } per  
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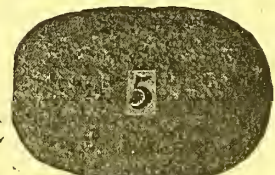
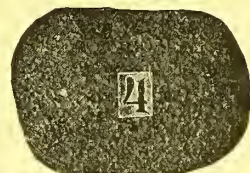
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Blades returned same day as received.

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The Coal Shortage and cutting down of street lighting will enable you to sell more

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All Batteries bearing this Label can absolutely be relied on.

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**Ward & Goldstone**  
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**SEND FOR OUR SEASON'S LIST**  
Illustrating full range of Electrical Pocket Lamps, Torches, Hand Lamps, Medical Coils, Bells, etc., in view of the constantly increasing demand for these goods, Traders would be well advised to order now to ensure immediate delivery. **REMITTANCE WITH ORDER WILL ENSURE PROMPT DISPATCH.**

**British Made Electric TORCHES complete with Batteries and Metal Filament Bulbs.**

The "Popular," 6½ × 1½ ins. Weight 1½ ozs. Reliable Torch at a popular price. Thoroughly strong and well constructed. Fitted with patent permanent switch. Price complete, 2/6 each net.



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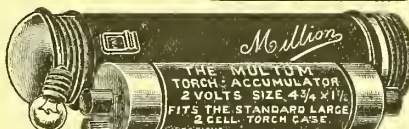
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3-5 volts., 4 - doz. net.

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Suitable for Home and Export. Unspillable, clean, lasting, and reliable—12 hours light at a charge. No heavier than dry battery refil.

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are now reduced in price to the Trade

**24/-** PER GROSS

TO RETAIL AT  
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THE CHEAPEST &amp; MOST EFFECTIVE CAPPING EVER PRODUCED.

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SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. Used by all the Leading Perfumery and Drug Houses. ABSOLUTELY AS OPAQUE as Split Skins and equal in appearance.

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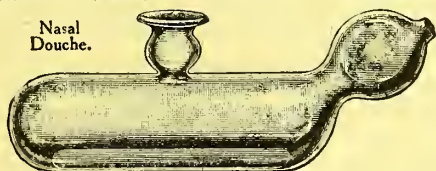


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108 galls.

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54 galls.

QR. CASKS.  
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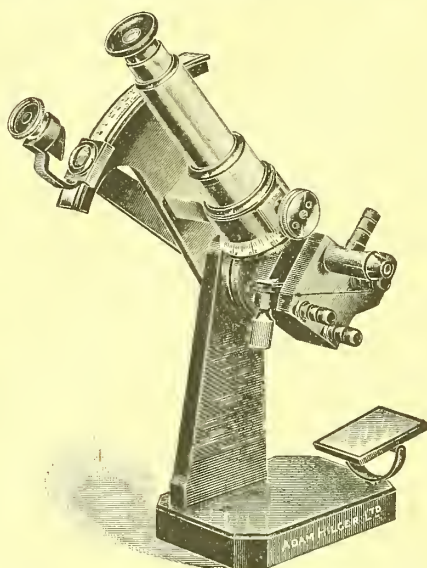
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The Best Gummed Paper  
made is only just good  
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SUPERFINE  
PURE GUM PAPER  
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*Containing the finest Norwegian Pine Tar and Licorice.*

Packed in cylindrical tins of 72. Perfectly labelled and wrapped.

SHOW OUTERS OF SIX, BEAUTIFULLY DESIGNED & FINISHED

per **5/6** doz.

Write for a sample if you are not familiar with the line.



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T 159 Cinnamon and Formalin ...	4/3	7/-	12/-	6/-
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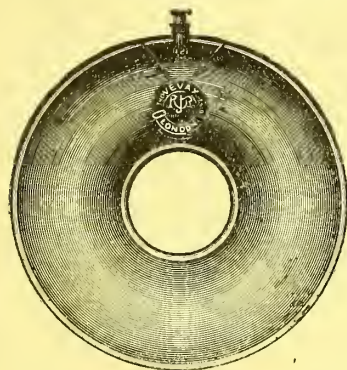
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## Solid Indiarubber Air Cushions

DOUBLE FLANGE.

BEST BRITISH MAKE.



RED CIRCULAR—

	12 in.	13 in.	14 in.	16 in.	18 in.	20 in.
Each	5/-	6/9	8/-	9/3	10/9	13/- net.

RED SQUARE—

	14 in.	18 in.	20 in.
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TRADE **VĒVAX** MARK Crepe Bandage



A perfect substitute for Rubber or Elastic Webbing for all binding purposes.  
Allows free circulation. Light and soft in texture. Contains approximately 70 per cent. pure wool.

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Issued in the following widths:—

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Six yards when fully stretched.

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THE LEAST TOXIC OF LOCAL ANÆSTHETICS  
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches,  
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**NO HOME OFFICE LICENSE REQUIRED**

Cheaper than Novocain and Benzocain and obtainable promptly  
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**LES ETABLISSEMENTS POULENC FRÈRES**  
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YOU CAN DOUBLE YOUR SALE OF  
SEIDLITZ POWDERS BY STOCKING

## G.O. SEIDLITZ POWDERS

EXTRA STRONG, AND FLAVOURED WITH LEMON.

**A**CTUALLY flavoured with LEMON AND SWEETENED, they  
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in your window. Show them on your counter. **THEY SELL  
RAPIDLY.** No trouble, no worry, no dead stock.

**WHOLESALE 21/- Gross Packets**

Five gross lots less 5 %

**RETAIL at .... 3d. Each**

They are packed in smart envelopes. 6 dozen envelopes in a Carton  
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They literally create Trade.

You sell out rapidly.

They may be ordered through Messrs.  
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and Messrs. Sutton & Co.; or on  
receipt of Cheque or Postal Order for  
21/- we will forward

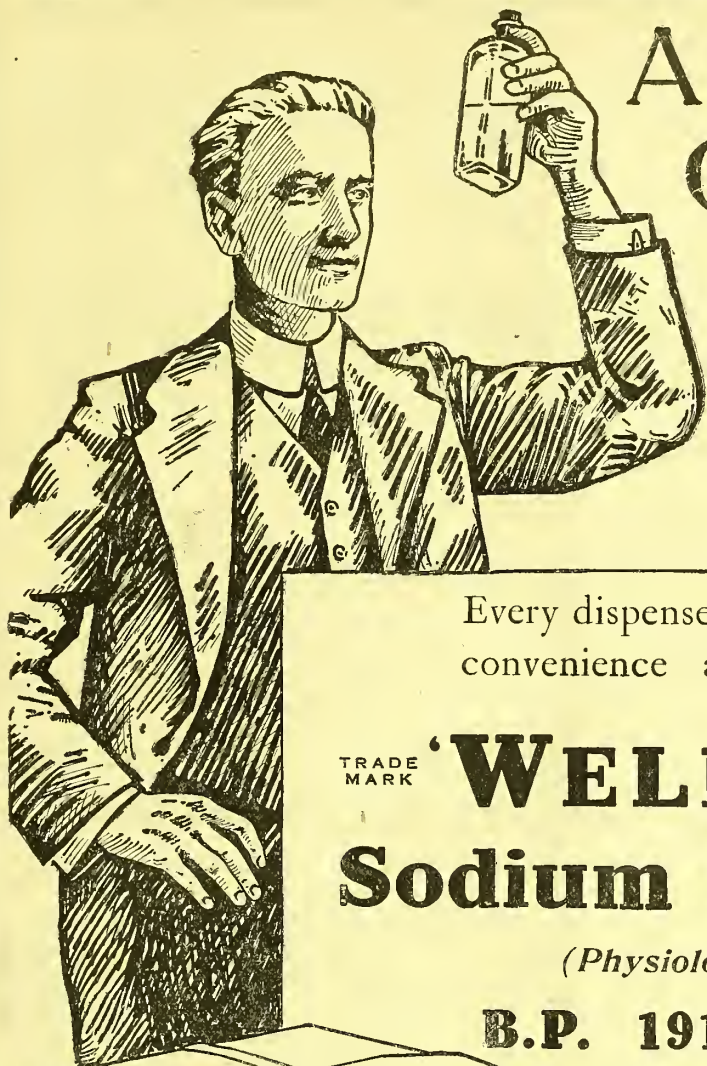
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WINDOW SLIP per  
return.**

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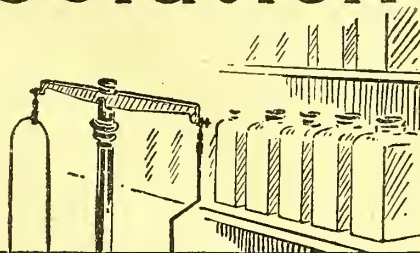
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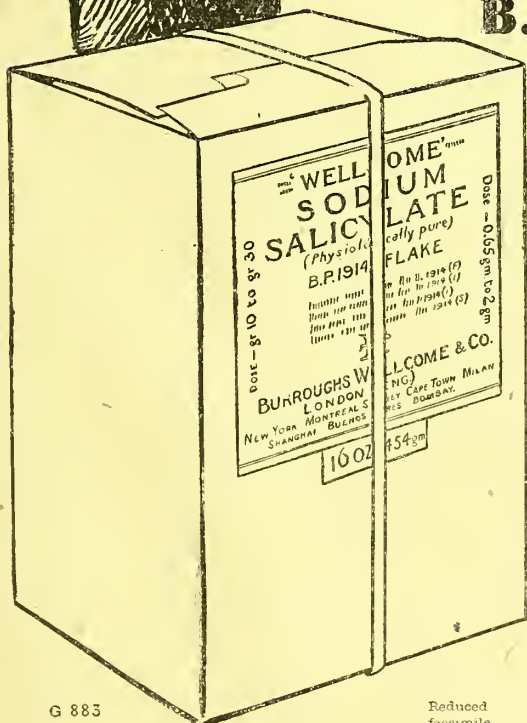
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## Sodium Salicylate

*(Physiologically Pure)*

**B.P. 1914, FLAKE**



It is readily soluble and gives a bright, water-white solution. Being free from dust, it saves time often taken up by straining. The flakes do not cake on the scale-pan or paper. It is made throughout by B. W. & Co., whose stringent standards vouch for its exceptional purity.

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Quotations given for any quantity, large or small.

Specimens of the product upon request.



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PILLS,  
TABLETS,  
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&c. &c.



PACKED  
PHARMACEUTICALS,  
TOILET PREPARATIONS,  
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admirable  
preparation."  
The LANCET.

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*For INFANTS,*  
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On the P. A. T. A.

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No.0 size.	No.1 size.	No.2 size.	No.3 size.
1/4	2/-	3/9	7/6
per tin.			

Wholesale of all Wholesale Houses and Shippers  
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Branch Offices: New York & Sydney. Depôts throughout Canada.

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## & THE "MONS MAN" SHOW

PROFIT  
**100%**

ON WINDOW TERMS.

P.A.T.A.

**9D.**

PER

**5/3**

EACH

DOZ.

**SEE THAT YOUR NAME  
IS DOWN FOR A "MONS MAN"**

and to do that just write in for 6 doz. "Zepto"  
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and it will be sent as soon as it is ready. Orders  
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parts of the Great War  
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the "Mons Man," does not  
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He fought and worked terrifi-  
cally then, and his replica now  
in "Civies" will soon be  
carrying on good work again  
by selling "Zepto" Pencils,  
and better than ever before.

This show is in twelve colours,  
and if orders come along from  
our travellers for same at the  
present rate we will soon have  
to cry a "halt." It is not ready  
yet, but will soon be, and those  
who order 6 dozen on the  
specially generous window terms  
will get their "Man" as soon  
as ready.





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### Known, Admitted, and Approved Remedies.

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1920, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine-Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference. A clear indication must also be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the "British Pharmacopœia," and the *Diary*, being published periodically, affords an opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent as promptly as possible within the next few weeks addressed to the Editor, C. & D., 42 Cannon Street, London, E.C. 4

## Experiences of the Great War.

Contributions to this section are invited.

### XVII.—Making Fireworks and Flares.

IN May 1916 I was in communication with the Inland Waterways Transport Department over an appointment as chemist on a water-filtration plant for Basra, on the Tigris, when I casually heard that an experimental chemist was required by the Ministry of Munitions. I made further inquiries and, eventually, went to see the officer commanding the experimental test ground at Claremont Park where, I understood, the vacancy was. I had no idea as to the exact nature of the work or knowledge required beyond the fact that it was something to do with explosives or fireworks, and of these, I must admit, my knowledge was extremely scanty. On arrival I found a small experimental station in connection with the Munitions Inventions Department—a testing ground for minor explosive inventions, such as hand grenades, pyrotechnic stores, etc., where inventions, submitted to the Ministry in London, could be experimentally tested. There were a number of workshops with which I afterwards became very familiar, and which, I learnt, were for the convenience of inventors who were sent there on tests or to work out improvements in their suggested inventions. The station was a military one, and there was a special company of the Royal Engineers consisting of various craftsmen, such as turners, fitters, carpenters, tinsmiths, electricians, etc., and, in addition to helping inventors on the spot, experiments were being carried out on work for the Ministry itself. It soon became forcibly impressed on the O.C., owing to one or two minor accidents due to men experimenting with dangerous compounds of which they knew next to nothing, that his staff was very much lacking in chemical knowledge. He was also "in a hole" for a special flare wanted for a rocket which was being produced at the station, and had concluded he could do with a chemist, partly for assistance in chemical matters and partly as a safeguard against accidents due to ignorance. It must be observed that the station was then only in its infancy and there was no chemical laboratory. I found he wanted not so much an expert on explosives as a man with a general chemical and pharmaceutical knowledge, able to perform analyses of compounds sent for examination, ready to make suggestions to inventors and, if possible, help them over some of their difficulties, able to interpret chemical and technological terms for the staff, and generally to assist in the station's activities. These *desiderata* appealed to me and I expressed my willingness to undertake the post, although I was warned that the only man who had had any chemical knowledge on the station, before my arrival, had been burnt to death in an explosion and fire. My first job was to fix up the rudiments of a laboratory, under the restrictive order of "get only just what is necessary for a start and order other things as you require them and don't spend much money at present." In the first place I did not know what was "necessary" seeing that I was ignorant of what I was expected to do, but I was given a white flare to analyse for a start in the hope of gaining knowledge for the required rocket flare. So I got together some reagents and the commoner items of chemical apparatus, had gas and water laid on to my "laboratory," which was formerly part of the Duke of Albany's kennels, and made a beginning. While waiting for apparatus, etc., I greedily absorbed all the information I could get on flares, explosives, and Government pyrotechnic stores generally, for I must admit I was not altogether comfortable at the prospects of handling high explosives so soon as I became familiar with them. As the result of about a week's experimenting I was fortunate enough to make a flare which answered the conditions required for the rocket—and these were pretty stringent. The authorities required a flare which could be packed in a steel tube  $\frac{3}{8}$  inch of internal diameter and about  $\frac{1}{16}$  inch in thickness of wall, which would burn while the rocket was in flight with a bright enough light to be seen by day (at a height of 3,000 feet) and which would not be extinguished by its



velocity of 300 to 400 feet or more per second, or by the shock of its "send off" or impact on landing. Incidentally it also burnt the steel tube away like so much paper. Though I tried many other combinations afterwards I was never able to improve on that composition or to find any other which answered as well. The rocket was intended for carrying messages from the front line troops to the rear or from isolated advance parties, where other means of communication were impracticable. The flare, and a whistle on the rocket nose, called attention to it while in flight, and when it landed it was to smoke long enough for it to be located. That was my next job—and a dirty one too! For weeks I rivalled any sweep as a result of working black powder, lampblack, pitch, asphaltum, turpentine, resin, etc., into a horrible concoction. But, gradually, I got the contents of 6 to 8 inches of tube to yield copious smoke for three minutes. Then there were problems of ignition and protection from damp, etc., to overcome, each entailing many experiments. Meanwhile the engineering shops were also improving the design of the rocket, and its range and accuracy were constantly increasing till it could cover over 2,200 yards in about 20 seconds and reach its objective with tolerable accuracy, carrying a message which might mean life or death to some advance party calling for aid, or save the life of a runner exposed to fire while delivering the same message with less speed and far greater risk. Work on the message-carrying rocket went on for several months, but, meanwhile, I had a thousand and one items of experimenting for various devices on coloured lights, smoke signals, phosphorus bombs and grenades, aluminium flares, thermit and incendiary bombs generally. The work was often of a dangerous character, as very considerable risks had frequently to be taken, and explosive mixtures are uncertain items in experimental stages. In the course of two years there were several accidents inseparable from such work and personally I had several lucky escapes, but did not get off scot free. I was burnt on head, face, and neck on one occasion in a gunpowder fire. Fortunately, the burns were not very deep, though they completely skinned my face, ear, and neck and destroyed half my coat. On a subsequent occasion I was not so fortunate and lost the thumb and first finger of my left hand through an explosion, but was lucky to get off with my life. At the same time the work was highly interesting and one came in contact with many quaint ideas and inventions designed for all sorts of weird purposes and the general discomfort of the enemy. Many of these were quite impracticable, but none the less the station did a lot of useful work, and personally I enjoyed my share despite my accidents. At the same time it was nerve-trying work and after the last explosion my nerves were not so good as before, and I was not sorry to return to civil life again after the armistice reduced the station's activities.

E. H. BRITAIN (86/80).

## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### Contracts.

The following Government contracts have been notified: MINISTRY OF MUNITIONS (WAR OFFICE).—*Chemicals*.—A. Boake Roberts & Co., Ltd.; Brunner, Mond & Co., Ltd. *Disinfectants*.—Burt, Boulton & Haywood, Ltd.; Jeyes' Sanitary Compounds Co., Ltd.; Killgerm Co., Ltd.; McDougall Bros., Ltd.; Newton, Chambers & Co., Ltd.; Phoenix Sanitary Co.; Quibell Bros., Ltd.; The "Sanitas" Co., Ltd.; R. Young & Co., Ltd. *Medicines*.—F. W. Berk & Co., Ltd.; Burgoyne, Burbidges & Co., Ltd.; Carnegie Bros.; Evans Sons Lescher & Webb, Ltd.; Harker, Stagg & Morgan, Ltd.; Howards & Sons, Ltd.; J. F. Macfarlan & Co.; May & Baker, Ltd.; The Pharmaceutical Lanoline Co.; Southall Bros. & Barclay, Ltd.; Stafford Allen & Sons, Ltd.; Whiffen & Sons, Ltd.; C. Zimmermann & Co., Ltd. *Soap*.—Price's Patent Candle

Co., Ltd.; Sanoper, Ltd. *Soda Crystals*.—Brunner, Mond & Co., Ltd.; The United Alkali Co., Ltd.

INDIA OFFICE.—*Cholera Cases*.—Burroughs Wellcome & Co.; Parke, Davis & Co. *Magnesium*.—The Magnesium Metal Co., Ltd. *Microscopes*.—Standley, Belcher & Mason.

POST OFFICE.—*Manganese Chloride*.—Thomas & Strachan.

CROWN AGENTS FOR THE COLONIES.—*Lymph*.—Lister Institute. *Novarsenobillon*.—May & Baker, Ltd. *Quinine*.—Howards & Sons, Ltd.

### Guardians' Affairs.

The Whitechapel Guardians are endeavouring to enlist the support of other Poor-law authorities in their proposal to secure an addition to the superannuation allowance of retired Poor-law officials.

The St. Mary, Islington, Guardians have appointed Mr. Louis Walter Billington, chemist and druggist, to the post of dispenser at their Highgate Hill Infirmary. A lady with the "Hall" qualification has been acting recently as dispenser at this institution.

The St. Pancras Guardians have decided to claim the rebate on rectified spirit from the Inland Revenue authorities. It has also been decided to instal an x-ray apparatus at the North Infirmary, Highgate, N., in addition to the installation which has been in use at the South Infirmary for some years.

The following tenders have been accepted by the bodies named:

Cambridge Guardians.—Mr. John Evans, chemist and druggist, Fitzroy Street, drugs, etc.

Clitheroe Guardians.—Mr. J. Harrison, chemist and druggist, drugs and dressings.

Great Yarmouth Guardians.—Mr. T. J. Woodcock, chemist and druggist, drugs.

Hemel Hempstead Guardians.—Mr. A. Isaacs, drugs and dressings.

Lewes Guardians.—Boots, Ltd., drugs.

### Pharmacy Classes for Brighton.

At a meeting of the Brighton Education Committee, held on September 23, Dr. Whittington referred to a recommendation in the proceedings of the Higher Schools Sub-Committee that the establishment of a training course for pharmaceutical chemists be approved, and that advertisements be issued for the appointment of a whole-time lecturer at a salary of 350*l.* per annum, the appointment to be for one year in the first instance, and the question of salary to be then reconsidered in connection with that of the establishment of a permanent pharmaceutical department. It was also resolved that the principal be authorised to requisition for the supply of chemicals, apparatus, drugs, etc., at a cost not exceeding 250*l.* for the purpose of the pharmacy course, and that the travelling expenses of the principal, and hotel and other expenses incidental to his attendance in Brighton in June and July, prior to entering officially on his appointment, be approved for payment. Dr. Whittington pointed out that this was an entirely new departure, but it was something which had been long wanted. The classes were not necessarily for disabled men who wished to take up pharmacy, but the Pharmaceutical Society, in co-operation with the Board of Education, were prepared to send about thirty ex-Service men for a nine months' course of training, and to pay to the College the sum of 30*l.* as an inclusive fee for each student. It was hoped that eventually the scheme would become self-supporting. In reply to a question, Councillor Black said the classes would be open to women as well as to men. He added that it had now become obligatory for every man and woman to have a full nine months' course of training; the number of students would thus be increased, and the existing number of schools in the country would be insufficient. The Government were encouraging them to begin this work by making an allowance of 30*l.* for every student in approved schools, and he had been assured there would be no school other than theirs south of London or east of Portsmouth, so that the students would be resident there. From a public point of view this was an advanced



movement in many respects, and the scheme was welcomed by the chemists and druggists of the town. He could not profess to say that it would always be carried out without charge to the town, but that would depend upon the skill with which their school was conducted. The recommendation was approved.

#### Birmingham.

Cadbury Bros., Ltd., have contributed 50*l.* to the Watt Memorial Fund.

A council-meeting of the Birmingham Pharmaceutical Association was held on September 19.

Captain Oliver Bird, son of Mr. Alfred Bird, M.P. (Alfred Bird & Sons, Ltd.), has been awarded the Military Cross.

Mr. W. M. Freeman, pharmacist and barrister-at-law, has been appointed a member of the central tribunal set up to deal with profiteering.

"From Birmingham to the sea by water" has long been a cherished idea of Birmingham manufacturers, and the Government is to be asked to forward a scheme to this end.

Miss Boucher, daughter of the well-known town traveller of Southall Bros. & Barclay, Ltd., has been appointed dispenser at the Selly Oak Infirmary by the Birmingham Guardians.

Many years ago a Birmingham pharmacist made a proposal similar to that carried at the recent Trades Union Congress in favour of six o'clock closing. That pharmacist is still with us, and believes that his proposal may yet become law.

The University procession in connection with the bestowal of degrees on September 18 was headed by the Vice-Chancellor and Alderman Clayton, Ph.C., Pro-Vice-Chancellor. Dr. Coole Kneale was also in the pageant of notabilities.

Mr. George Cadbury, chairman of Cadbury Bros., Ltd., attained the age of eighty on September 19. Mr. Cadbury, who has been associated with the management of the company for nearly sixty years, enjoys excellent health, and still plays golf.

Large quantities of rat-virus have been purchased in Birmingham this week. Those who have any useful suggestions to make for the furtherance of the campaign should communicate with Mr. Frank Thompson, Council House, Birmingham.

The presence of Professor Kango Takemura, Tokio, at the Watt Centenary in Birmingham is of interest to pharmacists, for he was once a student at Bloomsbury Square under Professor Atfield. The future professor occupied bench No. 3 in the laboratory, No. 1 being at that time occupied by F. H. Alcock (now of Birmingham), and No. 2 by J. H. Allan (now a Liverpool medical practitioner).

#### Liverpool.

Sir Alfred Dale has retired from the office of Vice-Chancellor of the University of Liverpool.

Mr. A. W. Ashcroft and Mr. A. J. Ferriday are spending their holidays at Ambervale, Derbyshire.

"Wanted, an errand-girl, one who will remain for at least three months," runs a notice in a pharmacy window in Liverpool.

The Mayor of Birkenhead (Mr. D. Roger Rowlands, chemist and druggist) has made a new departure by entertaining at dinner local members of the Press.

Mr. Henry Peet, F.S.A., chemist and druggist, is assisting in the selection of the articles which are being dispersed from St. Peter's Church prior to its demolition.

Action in connection with the operation of the Education Act has been taken here by the master wheelwrights, who have arranged that technical classes for their apprentices shall be started at the Central Technical School, the employers paying a capitation fee.

The warning given in last week's *C. & D.* (p. 57) concerning advice on venereal diseases ought to be echoed and re-echoed. The other day a young man and woman, who pretended that they were man and wife, had a "try

on," in a local pharmacy. The woman pointed to some trifling spots on her face, and the pharmacist said he thought that a boracic lotion (at the cost of twopence) would suffice. The man then suggested, and the woman accepted, a syphilitic origin. They were ordered to clear out and to seek medical aid.

#### Miscellaneous.

**POISONING.**—At Westminster, on September 18, an inquest was held on Paul Halperine, a Russian subject, who had been found dead in a hotel in Villiers Street, W.C. A doctor stated in evidence that a white sediment found in a glass near the body was "the remains of veronal or trional." A letter left by the deceased having been read, a verdict of "Suicide while of unsound mind" was recorded.

**OFFENCES AGAINST THE "PERSON ACT."**—At Church, Lancs, on September 18, Susannah Barnes was committed for trial on a charge of supplying pills to a woman to secure an illegal result. The case against the accused was that she supplied the woman with a quantity of pills and a plaster at a charge of 10*s.* After taking the pills the woman became seriously ill and a doctor was called in. Accused pleaded "Not guilty." Bail was allowed.

**PHARMACY CLASSES AT NEWCASTLE.**—Arrangements have been made for holding evening classes at Rutherford Technical College, Bath Lane, Newcastle-on-Tyne, for apprentices and others engaged in pharmacy preparing for the examinations of the Pharmaceutical Society. The classes commenced on September 22, and will be continued on subsequent Monday, Tuesday, and Wednesday evenings. The first-year course consists of inorganic chemistry (theory and practical), physics (theory and practical), and botany, and the composition fee is 1*l.* The second-year course consists of pharmacy, materia medica, prescription reading and pharmacy law, practical pharmacy and dispensing, the fee being 1*l.*

**DENTIST AND DENTAL MECHANIC CENSURED.**—In the course of an inquest held in Kensington, London, on September 23, it was stated that the deceased, a demobilised soldier, had had some teeth extracted at the West Brompton Teeth Institute, Lillie Road, S.W., the proprietor of which was Mr. G. C. Smith, a dental mechanic. Mr. B. Davies, a registered dentist in Mr. Smith's employment, gave evidence as to the extractions and the subsequent treatment. Dr. Hobbs stated that he had found in the jaw four plugs of cotton-wool, which it was improbable that the patient could have placed in position himself, in a putrid condition. Further evidence showed that the cause of death was tetanus, and the jury, in returning their verdict, added a rider that Davies and Smith were deserving of censure for the inefficient and hasty manner in which they had done their work, but that it did not amount to criminal negligence.

**IN THE COURTS.**—At Bow Street Police Court, London, on September 19, Robert William Ander, motor driver, was charged with stealing or receiving from the Great Northern Railway, between Peterborough and King's Cross, a portmanteau and contents, value 15*l.*, the property of Mr. Frederick William Cullington, chemist and druggist, manager to Boots, Ltd., at Plymouth. The evidence showed that on September 9 Mr. Cullington saw his portmanteau put into the luggage-van at Peterborough, but on the arrival of the train in London it could not be found. It was said that on the evening of the same day the accused sold it to a second-hand dealer in Essex Road, Islington. The dealer's suspicions were aroused, and he gave information to the police. There was a second case against the prisoner, who was committed for trial on both charges.—At Clitheroe, on September 22, a soldier named Dickman was committed for trial on a charge of stealing two bottles containing cocaine from the storeroom at Whalley Military Hospital.—At the Old Bailey, London, on September 23, Reginald Owen Bird, described as a chemist, was sentenced to six months' imprisonment in the second division for obtaining cocoa-butter by false pretences (*C. & D.*, August 2, p. 38). Edward George Roach, charged with conspiring with Bird to defraud, was acquitted.



## Irish News.

### Belfast.

Mr. W. J. Gibson, King Street, Belfast (Treasurer of the Chemists' and Druggists' Society of Ireland), who has been seriously ill from blood-poisoning, is recovering.

Doctors in Dundalk came out on strike on September 24 to enforce a demand for a minimum salary of 7*l.* 7*s.* per week for all public services. A number of people attending the public dispensaries were turned away without treatment.

Miss Rita Hogg, eldest daughter of Mr. Samuel Hogg, Ph.C., Shankill Road, Belfast, has won the medal for Latin (first place in Ireland junior grade Intermediate Board), a first-class exhibition of 15*l.*, and the 2*l.* prize for Latin composition.

At Belfast Police Court on September 19, two youths, named Robert McCracken and Alexander Robinson, were charged with assaulting Mr. James Maguire, chemist's assistant, 32 Bachelor's Walk, Lisburn, on September 14, and stealing 3*l.*, a silver watch and a gold chain and medal from him. Prisoners were committed for trial.

### Presentation to Mr. W. J. Busby.

There was a large gathering of the drug trade at Thompson's Restaurant, Belfast, on September 18, to do honour to Mr. W. J. Busby, R.D., manager of Harmur, Ltd., chemists, Ann Street, on the occasion of his departure for Canada (*C. & D.*, September 20, p. 47). Mr. Busby, who, for many years, was drug manager for Wm. Dobbin & Co., Ltd., North Street, where he served his apprenticeship, has been manager of Harmur, Ltd., since the formation of that company. Mr. James Tate, an ex-President of the Pharmaceutical Society of Ireland, presided, and was supported by Mr. S. Suffern (Past-President of the Chemists' and Druggists' Society of Ireland).



Photo]

[A. R. Hogg, Belfast.

Mr. J. Carroll Culbert (Hon. Secretary of the Ulster Retail Drug Trade Association), Mr. T. W. McMullan (T. McMullan & Co.), Mr. W. J. Hardy (President of the U.R.D. T.A.), and Mr. H. F. Moore (Hon. Secretary of the Committee), while the attendance was representative of the trade generally. After the loyal toast, Mr. Tate proposed the guest of the evening, and, on behalf of the assembly, wished him every success in the land of his adoption. Mr. Tate closed in poetic vein with an ode to Mr. Busby, two verses of which are given below:

A craftsman true,  
A real true blue,  
With optimism blest,  
Resolved is he the West to see  
In health and labour's quest.  
  
A sample good of Ulster blood,  
He's sure to gain success.  
With maple leaf and golden sheaf  
And naught to cause distress.

Mr. R. F. McCartney, J.P. (Coleraine) (director of Harmur, Ltd.), Mr. S. Suffern, Mr. T. W. McMullan, Mr. F. T. Smith, J.P. (Antrim) and Mr. J. C. Culbert also spoke in appreciative terms of Mr. Busby's geniality and business ability. After Mr. Busby had suitably replied, the Chairman handed him, as a souvenir, a solid-

silver cigarette-case, appropriately inscribed. Music and toasts filled the remainder of a pleasant evening. The musical programme was contributed to by Messrs. Gamble, Martin Busby, Strickland, and Mitchell, and Mr. J. D. Carse gave a recitation. The arrangements, which were most satisfactory; were in the hands of Messrs. Wilson, Newton, Suffern, Culbert, Crossin, and Moore. Mr. A. R. Hogg (Chemists' and Druggists' Society) took a flashlight photograph of the company. Mr. Busby sails next week from Belfast.

### Abortive Wage-scale Conference.

A meeting of the Chemists' and Druggists' (Ireland) Joint Industrial Council was held on September 17; and the following day, to consider the claim of the Chemists' Assistants' Branch of the National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks, for an all-Ireland minimum-wage scale, which had been lodged at the previous meeting (*C. & D.*, August 23, p. 47). The Amalgamated Union gave three months' notice to terminate the agreement arrived at by arbitration last December, and the notice expired on August 1. The following report of the proceedings of the Joint Council was supplied by Mr. Robert J. Kidney (Secretary of the Federation of Irish Chemists' (Employers) Associations): Mr. H. G. Pring (Belfast), Chairman of the Federation of Irish Chemists' (Employers) Association, presided, and the following were also present: *Employers' Representatives*: Messrs. Hardy, Tate, and Culbert (Belfast), Liston (Limerick), Grubb (Waterford), Lester and Fielding (Cork), Sir Thomas Robinson, Dr. J. A. Walsh, Messrs. Watson and Wells (Dublin). *Union Representatives*: The Misses Ryan and O'Kelly, Messrs. Parkes, Carton, McCandless, McTaggart, Blake, Bourke, Kennedy, O'Sullivan, and Williams. The Joint Secretaries, Messrs. R. J. Kidney and Edward Owens, were also in attendance. After considerable discussion the meeting was adjourned at 6 P.M. until next day at 10.30 A.M., and again continued until 6 P.M. No progress was made, owing to disagreement, chiefly upon the questions of apprentices, managers, hours, and Sunday duty. The demand that the employers should not in future require premium from apprentices, but should pay a salary amounting to 24*l.* over the four years, was rejected as being unreasonable and detrimental to the future of the trade. The demand for the right to fix a minimum salary for managers was rejected on the ground that employers could not permit their managers, who were controlling their staffs, to be under the control of the Assistants' Union. The claim of the Union for a six-day week of forty-four hours was also rejected by the employers on the grounds that theirs was a seven-day business, and that at least four hours should be worked on Sundays, as occasion required, by each assistant in rotation, and the seven-day week of fifty-two hours, as fixed by arbitration, thus maintained, this requirement being for the urgent need of meeting the public demand for medicines.

## Scottish News.

### Brevities.

The Western Chemical Co., Greenock, are erecting new works in Paisley.

The refilling of ships' medicine-chests is becoming common again in Dundee.

Local authorities are having a difficulty in securing supplies of tar for road-spraying.

Mr. J. B. McLaren, Pathhead, Kirkcaldy, has a striking window-show of "Fort Reviver."

At Dumfries, recently, Jane McKenzie, Dundas, sole partner of the Dundas Chemical Co., was fined 6*l.* for failing to stamp employes' Insurance cards.

The legend "From So-and-So, chemists, etc.," is now rarely seen on Scottish pharmacies. It pays better, says an up-to-date philosopher, to be So-and-So oneself.

The markets committee of the Scottish Beekeepers' Association has decided that 3*s.* 6*d.* per section and per 1-lb. jar is a fair minimum wholesale price for this season's honey.



As a motor-lorry, owned by Greenock Apothecaries and Lawsons, Ltd., was proceeding through Skelmorlie, the vehicle was overturned on the beach. One of the occupants was severely injured.

Mrs. Ogilvie Gordon, D.Sc., widow of the late Dr. John Gordon (who entered medicine by way of pharmacy), is presiding at the Dumfries conference of Scottish Insurance Committees (September 26 and 27).

The East Coast has recently been the happy hunting ground of the inspectors under the Sale of Food and Drugs Act. Whisky was the most sought after, yet most elusive, commodity. It is rumoured that the inspectors were really looking for "Aqua ad."

*A propos* of empties, the proposal has been made that, as an inducement to retailers to send back containers promptly, the wholesalers should offer to pay 50 per cent. of the carriage if the empties are returned within twenty-one days. A serious shortage of containers this winter is to be anticipated.

The Edinburgh education authority is introducing the following subjects at continuation classes: Shop arithmetic, business procedure, commercial correspondence, salesmanship, advertising, and elementary political economy. With reduced shop hours as well, the chances of the embryo chemist and druggist are sufficiently rosy.

Mr. X, an insured patient, went to an institution in a Scottish city, received a prescription, and showed the script to his doctor. The latter remarked that Mr. X himself would have to pay for the drugs, which he did—six times over. Somehow the local Insurance Committee heard, and Mr. X was told to report the matter to his doctor. "I will give you six forms," said the medico. "These you will take to the chemist, who will refund the money—and retain the forms!"

A correspondent writes with reference to a comment on bandages and dressings (*C. & D.*, August 9, p. 44) that the chemist referred to evidently does not live in the city of —. The doctors there once in a while order a microscopic piece of lint or oiled silk; practically never both together. It is related of a practitioner purchasing some toilet articles from a chemist that he introduced himself before paying for the goods. "Oh, yes," murmured the pharmacist, "I know your prescriptions quite well. Your eight-ounce mixtures frequently bring me 3d. or 4d. from the Insurance Committee's treasurer."

#### Increase in Freights.

The Dundee, Perth and London Shipping Co., Ltd., Dundee, announce that owing to the very extensive increase in price of bunker coal, and the inability to get the Coal Controller to assist coastwise shipping companies in price, it is necessary to make a considerable increase in freights, which will come into force forthwith. [As the Government have made it imperative that goods brought into the outports from abroad cannot be sent to London by rail, but by coastwise shipping only, this further rise is a serious matter for importers and adds to the cost of the goods. Moreover, there are frequent delays running into several weeks in transporting goods from Liverpool to London by steamer.—Ed.]

#### Glasgow.

Among the items mentioned in a charge of theft brought recently against two lads here was "twenty-four bottles of castor oil."

John C. Steel & Co., manufacturing chemists, 16 Victoria Street, intimate that their business is being carried on under new management.

CRICKETS AT LEEDS.—Leeds is waging a crusade against a plague of crickets, and difficulty is being experienced in exterminating them. It is stated that unslaked lime and carbolic acid are proving very efficacious.

A HOLIDAY EXPERIENCE.—A Midlands pharmacist, in the course of his summer holiday, ascended a difficult hill. With him was a burly man who perspired profusely but said nothing till the summit was reached. Then the stranger volunteered, mopping his face: "It would be no joke to bring a funeral up here!" It was not difficult to guess his trade.

## French News.

(From the "C. & D." Paris Correspondent.)

PARIS SOCIETY OF PHARMACY.—In addition to the seven sub-committees already appointed (*C. & D.*, August 16, p. 64), the Paris Society of Pharmacy has nominated six others, each consisting of five members, to study and report to the Codex Committee on various sections of the Codex for the next edition.

MORE MONEY FOR PHARMACISTS.—The Paris Municipal Council has decided to increase the annual allowance to house pharmacists in Parisian hospitals to 2,300fr. for first-year men; 2,600fr., second year; 2,900fr., third year; and 3,200fr. for the fourth year. Prize-winners ("lauréats") receive 3,500fr., fifth-year "internes," 3,400fr. An allowance of 730fr. is accorded for "vie chère" (increased cost of living), and the revised salaries date from July 1.

WAR ON LOCUSTS.—M. Vayssière has declared war against the locusts which infest Morocco and some parts of Southern France. Liquid flame, he states, gives excellent results where there is no fear of setting fire to crops, etc. Asphyxiating gases are less satisfactory. An aqueous emulsion of chloropicrine (25 or 50 per cent.) is also recommended. The French law forbids the use of soluble arsenical preparations, so popular in America, but the American formula (24 lb. of bran to 1 lb. of arsenic) killed 80 per cent. of the locusts within forty-eight hours, and M. Vayssière considers arsenical baits might be adopted where there are no animals.

PHARMACIST PRINCIPAL LACOUR, whose death at the age of seventy-five is reported, was the first man to take the degree of Doctor of Pharmacy at the University of Paris. He had a long and active career (1865-1903) as an Army pharmacist. When the war broke out he recommenced his pharmaceutical duties at Vincennes. He was a student of the old Strasbourg School of Pharmacy, and was looking forward to revisiting Alsace when he was taken ill with a malady which proved fatal. Pharmacist Principal Karcher, another retired Strasbourg student, died last month at Paris.

M. C. H. HERISSEY, who was complimented by the Society of Pharmacy on his nomination as Chevalier of the Legion of Honour, has been for fifteen years a member of that body. For the same period he has been head pharmacist of a Parisian hospital, first at Bretonneau, and latterly at Broussais. He has been Assistant Professor at the Paris School of Pharmacy since 1909, and collaborated with Professor Bourquelot in many interesting researches. He is also a member of the French Chemical, Biological, and Mycological Societies, and took the Nativelle prize of the Academy of Medicine, in 1906, for his essay on "Prulaursine."

BRAVE PHARMACISTS.—So many French pharmacists (military "majors" or mobilised civilians) have been mentioned in orders of the day for courageous conduct and valuable services during the recent hostilities that I have long since abandoned any attempt at a complete, or even partial, record. I merely cite the two following because they happened to have served outside France itself. Pharmacist-Major Clément "assured the delivery of pharmaceuticals to the Dardanelles Expeditionary Force from May 24, 1915, often under circumstances of peculiar difficulty. He never interrupted his work, in spite of the frequent bombardments of Sed-ul-Bahr, when the premises occupied as pharmaceutical stores were three times hit." Assistant-Pharmacist-Major Barrué "volunteered for the East in October 1915. He endured all the privations and dangers of the Serbian retreat. He was struck down by fever, and sent back to France in 1916, in spite of his protests, but was hardly cured when he demanded to return to the front. Badly wounded in the front line in the Argonne, he asked to have his wound dressed on the spot, and not to be sent back. During the final advance he was constantly in front line and with advanced posts to see that proper 'anti-gas' protection measures were carried out. He has been made a Chevalier of the Legion of Honour."



## Pharmaceutical Society of the Transvaal.

THE twenty-first annual general meeting was held in the Grand National Hotel, Johannesburg, on July 24.

Mr. J. M. Braes (President) was in the chair, and among those present were Messrs. H. M. Hetherington (Vice-President), Macintosh, Keir, B. Owen Jones, Christie, Rennie, Ralling, George, A. Anderson, Macdonald, Findlay, J. O. Thomson, Murray, O'Brien, Ordman, Bull, Russell, and several other members.

The President, in moving the adoption of the annual report and balance sheet, said it was very gratifying to know that the chemists had been publicly thanked by the Mayor of Johannesburg for their co-operation with the special Health Committee of the Town Council during the influenza epidemic. The President regretted the death of several members during the year—viz.: Mr. James Johnston (Past-President of the Society), Messrs. F. E. Turner, S. Wernikoff, E. Meyer, of Johannesburg, and E. Hester, of Pretoria; also Mr. J. Trehair, an Associate of the Society.

It was gratifying to learn that as the result of a special appeal for the Governor-General's Fund a sum of 2,574. 5s. had been raised by the chemists and opticians of Johannesburg. Reference to the balance sheet showed the Society to be in a sound financial position. An amount of 497. 4s. had been paid to chemists during the year for dispensing G. G. Fund prescriptions, and it was gratifying to learn that they were still continuing to supply these medicines at practically cost price. The President thanked the Committee for the assistance which they had given him during his year of office.

Mr. H. M. Hetherington seconded the adoption of the report and balance sheet, and it was agreed to. The President then called on Professor Wilkinson to say a few words until the scrutineers had finished counting the votes. Professor Wilkinson said he was very pleased to have the opportunity of being present once again at a meeting of the Pharmaceutical Society, and in the first place he desired to congratulate Mr. B. Ordman on receiving the Society's Gold Medal.

He was dissatisfied with the existing Qualifying examination of chemists in South Africa, and thought it should be brought on a level with that of Great Britain. This would require more energy on the part of students, employers, and the Pharmacy Board. In 1910 he had recommended that the examination should be made more stringent; this could only be done by dividing the examination into two parts, as under the present conditions it was impossible for students to do justice to any of the subjects when they had to study them all at once. In 1916 he had again recommended the same thing, but the Pharmacy Board, hoping that reciprocity between the various States would soon be accomplished, had delayed the matter, thinking that the time for action would be ripe when reciprocity was established. Since reciprocity, however, seemed to be no nearer now than in 1916, he would urge the Pharmacy Board to reconsider the question of bringing about reforms now, and he felt sure the other States would soon follow the lead given by the Transvaal Pharmacy Board. Professor Wilkinson referred to a meeting of the Council of the Pharmaceutical Society of Great Britain at which the question of raising the status of the Qualifying examination had been discussed. It was there urged that the present regulations were out of date and that the value of the Minor examination would be increased by dividing the examination into two parts—viz.: Scientific and Applied Scientific. He hoped that students would be urged to take a one-year's course of chemistry, physics, and botany at college before starting on their apprenticeship. This would make it much easier for them to go through their other subjects, as in that period students would have learned "how to learn."

With reference to the prizes given by the Society to pharmaceutical students attending the School of Mines and Technology, Professor Wilkinson said he was very pleased to hear that Mr. H. Tannenbaum, who had re-

ceived the prize for inorganic chemistry, was at the head of a very large class, a small percentage of whom were pharmaceutical students. With regard to the other subjects, he was very disappointed, as no classes were held owing to the fact that less than six students desired to study these subjects, and he hoped that employers would urge and give every encouragement to their apprentices and assistants to attend these classes. The President thanked Professor Wilkinson for the excellent address he had given.

The scrutineers handed in the result of the voting papers, and the following members were elected: Messrs. Macintosh, Braes, Keir, Rennie, Ralling, Macdonald, Christie, and J. O. Thomson. The country members, Messrs. J. E. Blair, B. Owen Jones, and W. Whyte, were returned unopposed. The new committee then retired and elected Mr. R. Macintosh President and Mr. C. Keir Vice-President. Mr. Macintosh thanked the members of the Society for the honour conferred on him, and said he would do all in his power to further the interests of the Society. He said his first duty as President was a very pleasant one—namely, that of presenting the Gold Medal to Mr. B. Ordman, whom he felt sure thoroughly deserved it, and he wished Mr. Ordman every success in his future studies. Mr. Ordman suitably replied. The President then called upon members to give their ideas on the Shop Hours Act in view of the fact that a commission would soon be appointed to discuss the situation. Mr. Bull moved as an instruction to the new committee that the general closing hour for chemists be half an hour later than the other shops, Mr. Keir seconded, and the motion was carried unanimously. Messrs. J. Christie and B. Owen Jones said they were very pleased to see that the meeting was unanimous on this question, as when everyone was out for shorter hours they did not see the necessity for chemists to keep open so long as at present.

Mr. H. M. Hetherington moved, and Mr. A. Anderson seconded, that the Sunday hours be 9-10 and 6-7. Mr. J. Christie moved as an amendment, and Mr. J. M. Braes seconded, that the morning hour be 10-11 and the evening hour 6-7. On being put to the vote the motion was defeated by seventeen votes to six. Mr. Bull moved, and Mr. J. Christie seconded, that the hour in the evenings of Wednesdays, Sundays, and public holidays be the same as the last working hour during the week. Mr. C. Keir moved as an amendment, and Mr. A. Anderson seconded, that the hour on these occasions be as at present, 6-7. On being put to the vote the amendment was carried by twenty-one votes to two. There being no further proposals regarding the Shop Hours Act the President asked if there were any comments on Professor Wilkinson's address, and in reply Mr. B. Owen Jones said they were all indebted to Professor Wilkinson for coming forward from year to year and giving the Society the benefit of his sound advice. He quite agreed that there should be a division of the Minor examination, and said it was not the fault of the Transvaal Pharmacy Board that consolidation between the States had not been arranged, but rather that of the Government, who had failed to bring forward the Medical, Dental, and Pharmacy Bill. Mr. J. Christie said that under the present regulations there was very little inducement for students to qualify either in the Transvaal or the other States, as they could practise only in the State where they qualified, hence they preferred going to Britain to qualify, by so doing being entitled to practise where they pleased. Mr. A. Rennie said that at present the Transvaal Pharmacy Board were trying to bring about the formation of a Union Examination Board, which in all probability would meet the case.

Professor Wilkinson, in reply, said he thought the Pharmacy Board should make it a rule that unless Great Britain or any other country accepted the Transvaal qualifications they, in their turn, should refuse to accept the qualifications of these other countries. By this means reciprocity between every country would soon be brought about, as it should be. There being no further business, votes of thanks to the Chairman and Professor Wilkinson brought the meeting to a close.



## Pharmaceutical Society of Cape Province.

A GENERAL MEETING was held at the Society's room, Darling Street, Cape Town, on June 19. There were present, among others, Messrs. S. W. Hill (President), W. Asher, A. L. Blair, W. Froembling, J. R. Corrigan, E. G. Alexander, H. Roytowski, A. Dowling, T. Graham, R. J. Rollnick, J. H. Harries, T. J. Hughes, R. S. Cheetham, R. Davidson, R. R. Osmond, H. E. V. Gardner, C. E. Taylor, A. Ross, W. J. H. Thomas, J. Sowden, A. J. Bell, H. P. Marshall, G. S. Burton, J. Main, A. J. Rivett, S. Sachs, A. C. Edelstein, and J. Sloan (Secretary). Before beginning the business of the meeting the President referred in feeling terms to the death of Mr. J. W. Cooper, and a vote of sympathy with Mr. Cooper's relatives was passed, all present standing. Minutes of the previous meeting were read and confirmed. The new rules and regulations of the Society were all passed, votes being asked only on rules 5, 10, 24, and 28, on which a long and spirited discussion took place. The Secretary was instructed to write to the Pharmacy Board asking them to receive a deputation from the Society with reference to their resolution and circular letter to all registered chemists and druggists, with a view to seeing how the Society can assist the Board in carrying out the resolution.

## P.A.T.A. of South Africa.

THE seventh annual general meeting was held on August 14, in the rooms of the Pharmaceutical Society, South African Mutual Buildings, Cape Town.

There were present Mr. J. Main (Chairman) and Messrs. Sowden, Wolfe, Mather, Greenland, Sleggs, Burton, Dr. Froembling, Price, Heald, Gardner, Graham, Hill, Hughes, and the Secretary. Mr. Frank Mathew (Honorary Treasurer), in submitting the Association's balance sheet and financial report, pointed out that the current audit showed the Association to be in a healthier condition than at any previous period. The bank balance was better than heretofore and the outstandings were very few. This satisfactory result was achieved after passing through a time of very great difficulty. Now that peace had been achieved with victory the prospect was good. Even at this early stage more interest was being taken in South Africa and the Association by oversea houses, and there were indications that the manufacturers' roll would be considerably augmented during the coming year. He urged every chemist in season and out to impress on manufacturers' representatives the expediency of joining the Association. If they would only do this every popular line would be speedily on the protected list. Mr. Mathew then briefly touched on the financial side of the Journal, and had pleasure in stating that this production was now on a self-supporting basis. Mr. Wolfe moved the adoption of the balance sheet, Mr. Sowden seconded, and the motion was adopted. The Secretary then read the Council's report for the past year. In speaking on the report the Chairman stated that he had pleasure in advising the meeting that the Durban chemists had reorganised and that there was now every prospect of a live P.A.T.A. branch in that city. He also spoke of the increased interest and great success achieved by the Transvaal branch under the enthusiastic secretaryship of Mr. Alexander Anderson. In conclusion, he was of opinion that the coming year was likely to prove the best yet experienced by the Association. Mr. Sleggs moved the adoption of the report, Mr. Burton seconded, and it was carried.

Owing to Mr. Sowden's withdrawal and there being no further nominations the following were elected for 1919-20:

Manufacturers' Section: Messrs. Arvidson, Oldfield, Sims, and Wolfe.

Wholesalers' Section: Messrs. Main, Mathew, Miller, and Price.

Retailers' Section: Messrs. Burton, Greenland, Petrie, and Sleggs.

Mr. Wolfe proposed, and Mr. Burton seconded, that Wilmott & Co. be appointed auditors for the coming year, and that their remuneration for the past audit be £1. 3s. This was confirmed.

Mr. Burton then spoke to his motion, viz.: "That when a firm is placed on the P.A.T.A. Stop List all supplies, whether P.A.T.A. or not, be withheld from that firm by members of the P.A.T.A., and that this rule be embodied in the constitution of the P.A.T.A."

The Secretary read a letter from the Association's solicitor, that in the event of the meeting adopting this motion the Stop List could only be sent to members of the Association and could not otherwise be published. The matter was then very fully discussed. Some present urged the adoption of the motion, and considered, with the support of the wholesalers, a very powerful weapon would be forged. Mr. Main thought that at all times the wholesalers had given the greatest assistance, and complained that retailers had not always reciprocated. He stated that many retailers expected the wholesalers to cut off all supplies from a cutter of protected lines, while they themselves would purchase their supplies from any mushroom company whose non-protected lines were a fraction lower than legitimate and old-established wholesalers. He advocated greater reciprocity, which would be for the ultimate benefit of all. Mr. Wolfe pointed out that if every article, whether protected or not, was refused a "cutter," the great inducement to manufacturers to protect their lines would be done away with. Mr. Wolfe stated again that if chemists only considered their own interests and would work together they could readily achieve their ends. For instance, if the whole of the retail chemists of a town told a representative that unless they were allowed a living profit they would refuse to stock the lines of his principals, Mr. Wolfe, as a representative himself, assured the meeting that the chemists' demands would be met at once. He reiterated the fact that the power lay in their own hands, and at this stage the Chairman thought it advisable to place before the meeting Mr. Anderson's amalgamation scheme. This was done. It was felt that such an amalgamated association would be a very powerful organisation, but was an impossibility at present, owing to the lack of interest displayed by chemists in general in matters of vital importance. The suggestion was made that delegates from each centre should meet and discuss the scheme, but it was pointed out that, so far as Cape Town was concerned, no delegate at the present time could say, "I represent the majority of the Cape chemists," because all chemists were not P.A.T.A. members, and the Retail Chemists' Association had not joined forces with the P.A.T.A. With the object of securing the co-operation of practically all chemists, Mr. Sleggs undertook to get into personal or telephonic touch with every chemist between Woodstock and Plumstead, and Mr. Burton promised the same in so far as Sea Point was concerned. In view of this move and the possible resuscitation of the Retail Chemists' Association, it was decided, with Mr. Burton's consent, to postpone discussion on his motion and the amalgamation scheme till the next general meeting of members. A long letter from Mr. G. F. Oldfield was read on the question of a price list, embodying both protected and non-protected articles, and this matter was likewise, after discussion, postponed till the next general meeting. The meeting closed with a hearty vote of thanks to the Chairman, the Council, and to the Pharmaceutical Society for the use of their rooms.

**SPRAYING-FLUIDS AND BEES.**—A Midlands observer of Nature reports that spraying-fluids are, after drying on plants, deleterious to bees, causing dysentery.

THE "KÖLNISCHE ZEITUNG" (July 4) states that, according to a statement made at the meeting of the Potash Syndicate, the potash consignments for the first five months of the current year amounted to 3,120,000 d.ctr. of pure potash, as against 5,097,000 d.ctr. during the corresponding period of the previous year. The decrease, therefore, amounts to about 2,000,000 d.ctr. of pure potash. The June consignments were also far below last year's figure for that month.



## Legal Reports.

**Engagement Dispute.**—At Paignton County Court, on September 22, Mr. S. Lewin, chemists' assistant, brought an action against Mr. Fred Sarson, chemist and druggist, Paignton, for breach of contract, 11*l.* being claimed as damages. Plaintiff said he was engaged subject to a reference being satisfactory. Subsequently he received a letter from Mr. Sarson stating that "under the present circumstances he had engaged a dispenser." Cross-examined: He intended to come to Paignton to settle in business. He brought his furniture down on the strength of the engagement. He knew that the reference would be satisfactory. Mr. Sarson said he wanted an all-round man, and was not satisfied that the defendant was fitted for the position. After receiving his reply the plaintiff wrote that he "hoped it was for the best." Plaintiff said he regarded that as a diplomatic letter. The Judge remarked that while the attitude of the defendant was extraordinary, he could not get over the letter written by the plaintiff. Judgment would be given for the defendant, without costs.

**Empties Dispute.**—At Leicester County Court, on September 23, H. H. Butler, wholesale chemist, High Street, Leicester, claimed 15*l.* 0*s.* 4*d.* from J. W. Scott, chemist and druggist, Tyseley, Birmingham, in respect of the failure to return certain empties. Mr. Butler stated he had credited defendant with 7*l.* 16*s.* 7*d.* for empties received since the summons was issued. This brought the balance of the account to 7*l.* 3*s.* 9*d.*, of which 2*l.* 4*s.* 11*d.* had been paid into court. Mr. Scott said he returned, on July 1, empties worth 9*l.* 0*s.* 4*d.*, and he had other empties on his premises which he was going to send back. He wanted credit for all others. His Honour: Empties cannot be taken into account until they are received. Mr. Scott stated that Mr. Butler charged 1*l.* for a box which used to be worth 10*s.*, but Mr. Butler said he did not want anyone to pay for the boxes. He only wanted the boxes returned. Later in the case it was discovered that Mr. Butler had credited Mr. Scott with more returns than defendant produced credit notes for. His Honour gave judgment for 7*l.* 3*s.* 9*d.*, the money to be paid into court, but not to be paid out till the next court, thus allowing time for the return of all the empties.

### Customs Law Consolidation Act, 1876.

#### IMPORTATION OF PYROGALLOL.

The application of Brown & Forth, chemical dealers and importers, 21 Farringdon Road, London, E.C., and 10 Dolefield Bridge Street, Manchester, for an interim injunction against the defendant, Mr. W. Buckley, Customs officer, restraining him from detaining or dealing with five tons of pyrogallol acid (*C. & D.*, September 20, p. 49), was before Mr. Justice Greer in the Vacation Court on September 24. The goods were seized under a proclamation prohibiting the importation of certain goods under the Customs Law Consolidation Act, 1876, under the section dealing with "arms, ammunition, gunpowder, or any other goods."

Mr. R. A. Wright, K.C., and Mr. Wylie appeared for the plaintiffs; the Attorney-General (Sir Gordon Hewart, K.C.) and Mr. Giveen represented defendant.

At the outset Mr. Wright read the affidavit of Mr. Robert Elson, manager to the plaintiffs, who said the goods in question were shipped from New York in July 1919, and delivered in Manchester to the orders of the shippers. The vessel arrived on August 17, and the goods were seized by an officer of Customs on August 29. The officer purported to act under the Customs Law Consolidation Act of 1876. Plaintiffs were informed that the goods had been seized on the ground that they were prohibited by proclamation. The latter was purported to have been made under the Customs Law Consolidation Act of 1876, which provided that "arms, ammunition, gunpowder, and other goods" might be prohibited by proclamation or Order in Council, which did not apply

to pyrogallol acid, which was a chemical well known as used for the development of photographs.

Counsel for the plaintiffs submitted that the seizure of the goods by the Customs officer was illegal, they not being included in the Act of 1876, and that therefore no licence was necessary to enable them to import the acid. The question involved was one of very great public importance, and that was the urgency of the matter to bring it before the present Court. The acid had no relation to "arms, ammunition, gunpowder, etc.," mentioned by the statute, but was an ordinary article of commerce.

His Lordship thought the defendant relied on the words "certain other goods" contained in the Act.

Mr. Wright agreed, but argued that pyrogallol acid had no connection with the articles—arms, ammunition, etc.—mentioned in the Act. The object of the Act was no doubt to protect the King's peace by restricting the importation of arms, ammunition, etc. Counsel submitted the defendant had acted *ultra vires* in seizing plaintiffs' goods, and asked for an injunction restraining defendant from dealing with them in any way pending the trial of the action.

The Attorney-General (Sir Gordon Hewart, K.C.), for the defendant, said his learned friend on the other side had said that the construction he (Sir Gordon) was going to put on the words of the Act would do the grossest violence to the true meaning of the statute. But he would not follow that course. He submitted that these proceedings were entirely misconceived. Plaintiffs on September 17 commenced proceedings in the Chancery Division claiming delivery up of the goods on the ground that defendant had no lawful grounds for detaining the goods—this notwithstanding that they knew the Government had started proceedings for forfeiture. Therefore, submitted the Attorney-General, the order asked by plaintiffs was quite unnecessary, there being no intention on the part of the Government of disposing of the acid. Defendant was a junior officer in the Customs service who has no control over the goods. Nobody had threatened to dispose of them—on the contrary; and the goods were now in the possession of the Collector of Customs subject to the control of the Board of Customs.

His Lordship: Then if I restrain defendant it would not give plaintiffs back their goods?

Sir Gordon: No, it would be perfectly nugatory.

Counsel added that there was nothing "urgent" about the matter which justified it in being brought before the present Court.

His Lordship: Plaintiffs want the goods and that is why it is urgent.

The Attorney-General contended it was "unheard of" that an interim order such as plaintiffs wanted should be made considering all the circumstances. The whole question could be raised in the forthcoming action taken against defendant with regard to condemnation of the goods, and there was no need for an interim injunction. Plaintiffs' present application (counsel contended) was entirely misconceived and ought never to have been made.

His Lordship thought it would be better perhaps if the parties agreed to an adjournment over the Long Vacation, when the whole question could be argued.

The Attorney-General: I am prepared to endeavour to expedite the proceedings under the Customs Act. We want to deal with the question as quickly as possible, but not as an interlocutory matter.

Mr. Wright did not mind how the matter was settled so long as it was done quickly. He asked for a declaration that the seizure of the goods was illegal.

Delivering judgment, Mr. Justice Greer suggested that the parties should apply to Mr. Justice Younger for an early date for trial. He (the Judge) was inclined to think that plaintiffs were right *prima facie* in their construction of the statute. But he did not decide it on the present application, as it must be decided at the trial. He regretted the question could not now be settled, but he did not think there would be any difficulty in obtaining a speedy decision, as the point involved was one of grave



importance not only to plaintiffs but also to other merchants.

The application would be refused, and the costs of the application would be costs in the action.

#### Defence of the Realm Act.

##### COCAINE PRESCRIPTIONS.

In the Dublin Police Court on September 23, before Mr. Cooper, K.C., Metropolitan Police Magistrate, Mr. Benjamin R. Allshire, Ph.C., 5 Prospect Road, Glasnevin, Dublin, was summoned by Inspector Quinn on a charge of having sold cocaine on July 23, 25, and 31 on the same prescription, contrary to Regulation 40 B. 1. (C.) of the Defence of the Realm Regulations, which prescribes that "Cocaine shall not be supplied more than once on the same prescription." Mr. J. W. Davis, solicitor, prosecuted, and Mr. E. H. Burne, solicitor, defended, instructed by the Chemists' Defence Association, Ltd. Inspector Quinn stated that he visited the defendant's establishment and inspected the cocaine register and prescriptions. He found that one prescription had been repeated three times. It was endorsed by the prescribing doctor. Dr. Gabriel Ryan stated that the original prescription was for a very irritable form of skin disease. In July he was called upon to prescribe for the same complaint in the same patient. As he had not a record of the quantity of cocaine in the ointment he wrote a second prescription, "Repeat cocaine ointment," knowing that the chemist's books would have the record. Later, when it was necessary to continue the treatment, he endorsed the latter prescription with the word "Repeat," dating and initialing it. Mr. Burne submitted that each writing by the doctor dated and initialed by him was a new prescription and a compliance with the Regulation under which the summons had been brought. Mr. Davis submitted that in order to comply with the Regulation the prescription should be fully written out afresh on each occasion. Mr. Cooper held that Mr. Davis's contention was correct, and said that as there was no fraud but merely a technical offence he would only impose a nominal penalty of 5s. Mr. Burne said as the matter was one of interest to the Chemists' Association and as the practice carried out in this case was frequently adopted his clients might like to have a case stated for the opinion of the King's Bench Division. Mr. Cooper agreed to state a case if that were desired later.

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

**SHEARMAN AND SHELTON, LTD. (P.C.).**—Capital, 6,000*l.* Objects: To carry on the business of manufacturing and general chemists and druggists, etc. The first directors are: F. A. Hanworth, Oulton Broad, Lowestoft, chemist; Mrs. E. C. and Miss F. M. Hanworth, Silfield, Wymondham, Norfolk.

**SACOL CHEMICAL CO., LTD. (P.C.).**—Capital, 10,000*l.* Objects: To carry on the business of manufacturers of all kinds of disinfectants, chemicals, chemical preparations, adhesive pastes, soaps or oils, manufacturing chemists and druggists, drysalts, oil and colour men, etc. R.O.: Bankside, Sculcoates, Hull.

**NUTREM, LTD. (P.C.).**—Capital, 2,000*l.* Objects: To carry on the business of manufacturers, importers, and exporters of and dealers in all kinds of food, food materials and food products, etc., and to adopt an agreement with W. Pickering. Solicitors: Bower, Cotton & Bower, 4 Bream's Buildings, E.C. 4.

**CHEMICAL ENGINEERING CO. (MANCHESTER), LTD. (P.C.).**—Capital, 15,000*l.* Objects: To take over the undertaking and all the assets (including goodwill and patent rights) and liabilities of the business carried on by J. W. Spensley at 49 Deansgate, Manchester, as the "Chemical Engineering Co.," and to carry on the business of engineers, chemical-plant engineers, etc. R.O.: 49 Deansgate, Manchester.

**TANNERS' SUPPLY CO., LTD. (P.C.).**—Capital, 5,000*l.* Objects: To carry on business as tanners, tanners' suppliers, leather merchants, workers and dealers, chemists, commission agents and merchants, etc. Office: 150 Boundary Street, Liverpool.

**J. H. SQUIRE, LTD. (P.C.).**—Capital, 2,000*l.* Objects: To take over the business of a manufacturing chemist and wine and spirit merchant carried on by J. H. Squire at 319 Ashton Old Road, Openshaw, and 71 Hyde Road, Gorton, Manchester, as "James Henry Squire." The directors are: J. H. Squire, 319 Ashton Old Road, Openshaw, Manchester, wine and spirit merchant, and H. Square, 71 Hyde Road, Gorton, Post Office telegraphist.

**COMPANIES WHICH MAY BE WOUND UP.**—Three months from September 19 the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register, and the companies will be dissolved: Carbonated Waters, Ltd.; Natural Hair Oil Co., Ltd.

**TJILWOENG JAVA PLANTATIONS, LTD.**—At the annual meeting held on September 19, at 5 Fenchurch Street, London, E.C., Sir Edward Rosling, chairman of the company, presided, and, in moving the adoption of the annual report, said that "cinchona yielded 36,896 lb.; the Java analysis gave 7.65 per cent. sulphate of quinine, but on arrival it proved to be over 8 per cent. The reports generally from the estate are satisfactory; the cultivation has been maintained; and the supply of labour has proved sufficient for requirements."

**PRICE'S PATENT CANDLE CO., LTD.**—A circular has been issued to the shareholders informing them that a contract was signed on September 22 under which Lord Leverhulme offers to purchase the shares, paying for each share 40*l.* in cash and the allotment of thirty-two 15 per cent. "A" cumulative preferred ordinary shares of 1*l.* each in Lever Brothers, provided holders of at least 90 per cent. of the shares in the Candle Co. assent. A form of assent, with full particulars, is in the printer's hand, and will be posted to shareholders.

**SMITH, STANISTREET & Co., LTD.**—The report of the directors for the year ended March 31, 1919, states that after providing for usual depreciation and other charges, writing off Rs. 31,964-8 for cost of plant purchased and erected expressly for war work now completed which cannot be utilised in the regular work, making provision for income-tax and excess profits tax, and after payment of the interim dividend on preference shares to September 30, 1918, the profit and loss account shows a credit balance of Rs. 2,61,583-1-2, which includes the sum of Rs. 5,577-2-7 brought forward, and this the directors recommend should be dealt with as follows: To pay to the preference shareholders dividend for the half-year ended March 31, 1919, making 7 per cent. per annum, Rs. 17,500; to pay 22 per cent. dividend to the ordinary shareholders, Rs. 2,20,000; to create a reserve for writing down goodwill from Rs. 2,65,000 to Rs. 2,45,000, Rs. 20,000; to be carried forward to the next year's account, Rs. 4,083-1-2; making a total of Rs. 2,61,583-1-2. The directors report that, despite a steady decline in prices of most chemicals since the armistice, business has continued good for the year under review. Stocks in hand have been conservatively estimated below cost. Outstandings are higher than those of the previous year, which is to be expected in view of the increase in turnover. In this connection shareholders will be gratified to hear that the bad debts written off during the past five years have averaged less than one-half of 1 per cent. of the turnover, the actual figure being 0.462 per cent. of the total book debts. As there are 15,000 current accounts on the books this is an exceedingly good record, and the reserve for bad and doubtful debts may be considered a safe margin. New machinery for the manufacture of alkaloids from certain indigenous drugs on a comparatively large scale (which has been under consideration and the subject of considerable experiment and investigation for the past five years, but which could not be undertaken during the war owing to the impossibility of obtaining the necessary plant) is now on its way from England.



## Pharmacy in the Russian Army.

NOT THE LEAST INTERESTING of many and varied experiences of pharmacy in war on many fronts has been work in Russia, where elements of the old Imperial army were operating, side by side, with British units. During the dim days of an Arctic winter one has somewhat exceptional opportunities of studying the details of the pharmaceutical service of another army. The close relations recently existing between the medical services of the British and the Russian (pro-Ally) forces was nothing new, as the British medical profession has always been highly esteemed in Russia.

### HISTORICAL.

So far back as the sixteenth century, and especially during the reign of Ivan the Terrible, English apothecaries were employed at the Imperial Court and held important positions among the Russian noblemen and statesmen. Queen Elizabeth was responsible for sending out the best known of these pioneers—James Roberts, who is still remembered under the name of "Jakobi." Waliszewski refers to this invasion of Russia by British doctors in his "Life of Ivan the Terrible" (translated by Lady Mary Lloyd). He says that "The whole of these foreign apothecaries could not have induced any native-born Russian to swallow a pill or accept any similar remedy. The moment a Muscovite felt out of sorts he drank a glass of vodka, seasoned with pepper or garlic, ate a slice of lemon, and took a clyster. This was his treatment for every complaint." Notwithstanding this, British medical men established themselves very successfully in Russia at this period and played an important part in its medical and pharmaceutical history during three centuries. The physicians and apothecaries retained by noble families were held in high honour and richly paid for their services. When they succeeded in effecting cures, estates, serfs, horses, and furs were bestowed on them with truly Oriental munificence. At the beginning of the seventeenth century a state dignity with the title of *Apothecary boyar* was created, and, with the advent to power of the Romanoffs, the Tsar Michael instituted a pharmaceutical council. This council was an influential body, and appears to have controlled the practice not only of pharmacy but medicine as well. The Russian Army of this period was a remarkable body. It consisted chiefly of professional soldiers or musketeers, who lived in a special suburb of Moscow called after them. These musketeers followed various trades in peace-time, but received subsidies from the Court and brought up their sons as hereditary soldiers of the Tsar. Like all privileged classes, they became inefficient and mutinous, and were ruthlessly wiped out by Peter the Great, who established an army and an Army Medical Service on the European model. The pharmaceutical council became the medical council, and a State Department under a Scotsman named Erskine, who was the Tsar Peter's personal physician. Owing, no doubt, to the influence of Dr. Erskine, Peter the Great spent large sums in the importation of medical and pharmaceutical educational material and in the equipment of hospitals and schools of medicine and pharmacy. In Peter the Great's army there were two apothecaries on the staff of every general, corresponding to our divisional commanders, and each division had two dispensaries, one for cavalry and one for infantry. Each dispensary had an apothecary-in-charge, with two apothecary's assistants and four pupils to assist him. There were also field hospitals for each division, and each had a field dispensary under the charge of apothecaries. After the death of Peter the Great pharmacy and medicine passed through many phases, and had numerous "ups and downs" until, at the beginning of the nineteenth century, the medical service of the army had been organised into a definite military department, with another Scot, Sir James Wyllie, at its head. Even Wyllie's influence, which was great, was not sufficient, however, to prevent the dual control of hospitals and dispensaries that had crept in during the period between the death of Peter

the Great and the accession of the Tsar Paul. In Wyllie's organisation was founded the position which still obtains—directors or commissaries of hospitals who are combatant officers, and directors of medical services who are medical men. The former are in charge of all economic and disciplinary matters, whereas the latter are merely responsible for professional and technical duties. On paper the organisation of the Russian Medical Service during the Crimean War was excellent, but, like our own, it broke down completely during that campaign. The experience gained, however, led not merely to radical changes in the Russian Army as a whole, but also to a peaceful revolution in the Russian national life. Serfdom was abolished and national service introduced. In 1869 comprehensive changes were carried out, and the system adopted which was found in Russia at the outbreak of war, and which has continued up to, and since, the revolution. Imperial Russia had the principle of universal service, but certain classes of the community, including doctors and apothecaries, were exempt from service with the Colours in peace-time. Society in Imperial Russia was divided into some fourteen classes. Each class had a definite position in the general community, and all who were Government servants were entitled to wear a uniform. Russian officers of combatant services were the dominant class, and the term *ofitser* was actually reserved to them. Officials of the administrative services were not officers, but held in society the position accorded to their relative military rank. The Russian *brach* (surgeon) or *farmatsevt* (pharmacist) held precisely the same position in the Russian army as that occupied by surgeons and apothecaries in our own army prior to 1880. They had medical titles, and relative—but no actual—military rank or powers of command.

### THE RUSSIAN ARMY MEDICAL SERVICE.

In Russia the Army Medical Service includes the veterinary service, and not only are medical and veterinary stores kept in the same depôts but an actual interchange of duties was permitted, to some extent, between veterinary and medical personnel. There is not a special medical corps as in our own and most Continental armies, yet Russian war establishments before the war provided for 3,200 medical officers, 3,800 pharmacists, and over 52,000 medical rank and file. Several writers on the Russo-Japanese War, and on the earlier stages of the Great War, commented on the very generous provision of Red Cross personnel with Russian field armies, yet this large body of officers and men had not even a distinctive name and was largely composed of personnel temporarily detached from combatant units and other branches of the army. The Russian Medical Service—if we can use the term "Service" for such a heterogeneous staff—was composed of three elements: (1) Military medical personnel; (2) military non-medical personnel; and (3) civilians.

### MILITARY MEDICAL PERSONNEL.

The medical personnel consisted of: (a) Medical officers; (b) pharmacists; and (c) subordinate medical personnel (*feldshers* and *nadziratel'i*). All surgeons in the Russian army are qualified medical practitioners before entering the army. They are classified in six grades, which correspond with the civil official rank as follows:

Medical grade	Corresponding official rank	Corresponding military rank	Civil title
1st	Fourth	Major-general	Privy Councillor
2nd	Fifth	Colonel	Actual State Councillor
3rd	Fifth	Colonel	"
4th	Sixth	Colonel	State Councillor
5th	{Seventh Eighth	Lieut.-Col. Captain	Court Councillor
6th	Ninth	Lieutenant	Collegiate Councillor Collegiate Assessor

The civil titles conferred certain privileges and were used in official correspondence. All candidates for appointment as *vrach* had to be qualified medical men, but as there were three grades in medical graduates the academic standing of the individual determined the grade to which he was appointed. Persons who had obtained the minor degree of *lekar* were appointed to grade 6, with the rank of lieutenant, whereas those who had obtained the



higher degree of M.D. or M.D. and S. (Doctor of Medicine and Surgery) were appointed to the official eighth class, with the rank of captain, and the high-sounding title of collegiate councillor.

#### APPOINTMENT OF PHARMACISTS.

Only graduates in pharmacy of the army medical academy or of a Russian university were appointed to commissions in the army. A *farmatsevt* must possess the lower degree of "Provvisor" on appointment, but in order to get promotion he must take his degree as Master of Pharmacy. There are four grades of pharmacist, as follows:

Pharmaceutical grade	Corresponding military rank	Civil title
1st, Glavini farmatsevt	Colonel	State Councillor
2nd, Starsbi farmatsevt	Lieut.-Colonel	Collegiate Councillor
3rd, Mladshi farmatsevt	Lieut. or Capt.	Collegiate Assessor
4th, Aptekarshii pomostchniki	Warrant officer	<i>Nil</i>

The Russian military pharmacists are a highly-trained and scientific body of men. In their hands are placed the preparation, supply, care, and dispensing of medical supplies of all kinds, the supervision and charge of military medical store depôts, the charge of analytical and bacteriological laboratories, and of Government factories for the manufacture of surgical instruments and druggists' sundries. The pharmacist official performs only the higher branches of pharmaceutical and administrative duties. The actual dispensing and the bulk of the duties performed by the sergeant and corporal dispensers of our R.A.M.C. are performed by dispensary *feldshers*, a body of subordinates.

#### FELDSHERS.

The *feldsher* is a peculiar feature of the Russian army. The term is applied to the members of a recognised inferior grade of medical, veterinary, and pharmaceutical practitioners. They are found in both civil and military practice, and nothing quite like them exists anywhere except India, where there are two bodies of medical public servants who correspond more or less exactly with the Russian *feldshers*. There are (a) the former apothecaries and (b) the former hospital assistants. The first-named are now called assistant-surgeons and the latter sub-assistant-surgeons. Both are employed in civil as well as in military practice. Both are regarded as qualified to practise outside the army—the apothecaries among all classes and the hospital assistants among the native community. In the Russian army the *feldshers* are the professional assistants of both medical and pharmacist officers, and may take their place just as the assistant-surgeon in India often acts for an R.A.M.C. officer and the sub-assistant-surgeon for an officer of the Indian Medical Service. Medical and pharmaceutical *feldshers* in Russia are trained either before entering or while serving with the army. Only the first class is qualified for civil practice, and this class may be trained in a civil or military medical school. If trained in a military medical school he must serve one and a-half years with the active army for each year of instruction received, and the *feldsher* course lasts three years. Appointments are made by district army medical inspectors, and the pharmacist *feldsher* on appointment gets the sonorous title of *mladshi aptechni* (*feldsher*). For the second class of *feldsher* soldiers from combatant units are selected and trained in military medical establishments. *Feldshers* trained in these military hospitals are appointed to companies, squadrons, and batteries, and are junior to the *mladshi aptechni feldshers*, who are employed with higher military formations or in hospitals. *Feldshers* may rise to the rank of "acting officer," a grade somewhat inferior to that of second-lieutenant in our army, but the majority remain non-commissioned officers all their lives. The pharmacist *feldsher* in civil life has limited powers as to the sale of drugs and medicines and is almost exactly comparable with the registered druggist in Ireland.

#### NADZIRATELI OR HOSPITAL SERGEANTS.

The *feldshers* in Russia, like the doctors and pharmacist officers, are only engaged on professional duties. They

have no purely military duties to perform. In Russian military hospitals the duties of ward master and hospital sergeant are performed by special *personnel* called *nadzirately*. Their relationship with medical and pharmacist *feldshers* is peculiar and complicated. They give way to *feldshers* in all professional matters, but are senior to them in all matters of discipline and military precedence. This is typical of Russia, where the representative of executive authority is always superior to the professional or technical official, however highly trained. The result was that a vast host of combatant officers were employed in command of hospitals and military medical formations of all kinds. They had complete control over supply, general management, and interior economy. In peace-time the doctors are barely allowed to treat their patients or the pharmacists to dispense their medicines *secundum artem*, but in war they are given strictly limited powers of command. A *mladshi vrach* when carrying out periodical courses of instruction was not even allowed to command the stretcher-bearers of his unit. A combatant officer was placed in command ostensibly to learn the stretcher drill, but really to prevent a mere *vrach* commanding troops on any form of parade. Under the Republican *régime* this has been entirely altered, and some of the highest military commands are held by doctors.

#### HOSPITAL RANK AND FILE.

Non-commissioned officers for medical formations are drafted from combatant units. As in all other Continental armies a sharp line is drawn between hospital orderlies and stretcher-bearers. The former are trained in nursing duties, whereas the latter are trained only in first-aid. Subordinate *personnel* for work in pharmacies is specially trained and not employed on other hospital duties. In Russia the regimental system of medical work (see "Pharmacy in the French and Italian Armies," *C. & D.*, June 7, p. 50, and June 14, p. 64) is developed to the fullest extent, and every effort is made to cure a sick soldier in the regimental *lazaret* or hospital. Each little regimental hospital has a dispensary *feldsher* and usually a well-equipped and well-stocked pharmacy. Pharmacist officers do not serve with regiments in peace or war. They serve on the staff of directors of medical services, have charge of hospital dispensaries, and are employed in depôts of medical stores, laboratories, and factories of medical material. Before the war a certain number of pharmacists were selected for the study of military pharmacy in foreign countries. They were sent abroad at the Government's expense, usually for a period of two years.

The Russian Army has three types of field ambulance—regimental, divisional, and brigade. In Continental armies a "regiment" corresponds to our "brigade," and a "brigade" means a group of regiments smaller than a division. The field ambulances are called *lazarets*, and each has one, or more, dispensary *feldshers* who performs all the pharmaceutical duties. Behind the *lazarets* are field-hospitals, which are like our stationary hospitals. Attached to these are field convalescent depôts, which have no counterpart in the British Army. Behind the field hospitals are field clearing commissions corresponding to casualty clearing stations. A pharmacist officer is attached to each field hospital. He has a large subordinate *personnel* of *feldshers* and pharmacy attendants, ranks as a captain, and has the disciplinary powers of a company commander. Sometimes field hospitals are massed together in groups, and the pharmacy is then a very big affair indeed, and the single pharmacist officer has a responsible charge. Pharmacist *feldshers* are employed in bacteriological and disinfection columns, but the pharmacist or his *feldsher* may be found everywhere. One of their most important functions is the care of the

#### UNITS FOR THE SUPPLY OF MEDICAL EQUIPMENT.

There are two classes of units corresponding to the British advanced depôts of medical stores—field dispensaries and temporary dispensaries. A temporary dispensary has no fixed establishment, whereas a field dispensary is under a *glavni farmatsevt*, ranking as a lieutenant-colonel with a captain as second in command, one to two junior pharmacists, and a large staff of *feldshers* and attendants.



A special feature of these field dispensaries is an instrument-repairing shop, with a foreman cutter and trained instrument repairers. Until the revolution the army medical factory at Petrograd was the most important and extensive of its kind in any country.

It consisted of a pharmaceutical laboratory, a surgical dressings mill, and a surgical instrument factory. The latter was in charge of a medical officer of the highest rank, with surgeon-colonels in charge of each section. The medical officers were, however, largely ornamental, and the real work of the factory was carried on by pharmacist officers.

#### THE RED CROSS.

Before the war the Russian Red Cross was perhaps the best organised and wealthiest of all the European Red Cross Societies. In addition to the usual private sources of revenue of such bodies it was heavily endowed by the State. The Society had the monopoly of the sale of picture postcards. It received a percentage tax on public and private entertainments, and also the revenue from the sale of stamps on railway tickets and of surcharges on telegrams.

It was very active in peace-time and carried out important relief duties, such as sending detachments to work among the Russian fishermen on the north coast of Norway and among the islands of the Arctic Ocean, but its chief work was the organisation and maintenance of lay communities known as the "Sisters of Mercy of the Red Cross." It employed a large number of pharmacists, as the Red Cross supplied practically every form of medical formation. The Red Cross units worked side by side with those of the regular medical service in the most forward positions. Pharmacists with the Russian Red Cross had all the privileges of their comrades with the regular army. Under the Republican régime the pharmacist was admitted into the class known as the *intelligentsia*, which included all the professional sections of the community and, prior to the Bolshevik upheaval, had the complete control of the executive.

The whole of Russia's political, social, and economic life is now in the melting-pot. British influence was, as has been already shown, the greatest factor in developing the position of medicine and pharmacy in Russia during the past three centuries, and it will be interesting to observe what part will be played in the organisation of these twin arts, in the future, by British pharmacy.

M.D., L.P.S.I. (69/91.)

## A Vibrona Fete Day.

MAJOR T. CLEMENS USHER, one of the directors of Fletcher, Fletcher & Co., Ltd., who has been on active service in France and Flanders since the outbreak of war in August 1914, has now been demobilised, and on September 19 the company's staff, including the home and foreign representatives, assembled at Major Usher's residence, Blakenore End, Little Wymondley, Herts, to extend a welcome home to him and to the members of the staff who have been serving overseas. These have all, happily, returned, with one regrettable exception, the latter being Edward Bryant, the youngest of the group, who, joining as a private in the King's Royal Rifles in 1915, subsequently was granted a commission in the Royal Garrison Artillery. As the result of trench fever and exposure, phthisis developed, to which he succumbed in March of this year.

Assembling at the Vibrona Laboratories, Holloway, at 10 A.M., motor chais-a-bancs conveyed the party through the beautiful scenery of Hertfordshire to their destination, where in a capacious marquee luncheon awaited them, enlivened by the strains of an excellent string orchestra. Mr. F. W. Fletcher, governing director, presided, supported by his co-directors, Mr. Fred Bascombe and Major Usher. After the toast of "The King," the Chairman proposed "The Health of Major Usher and the Members of the Staff who had served their Country Overseas," to which Major Usher responded.

Mr. G. E. Cecil, the senior member of the office staff,

whose record with the business extends to over twenty-nine years, then read the following address, signed by each member of the staff, which had been designed and printed by Mr. E. Fillmore, head of the Vibrona letter-press department:

An Address of Welcome presented to Major T. Clemens Usher on his return as director of Fletcher, Fletcher & Co., Ltd., Holloway.

We, the undersigned members of the staff, desire to tender you our sincerest congratulations on your safe return to resume your duties as director after an absence of five years on active service. The fact that you volunteered your services when war was first declared causes us to respect all the more the courageous sacrifice you made. There was not one of us but followed you in our anxious thoughts through the great conflict, and felt grateful relief when you were spared to return to us. Nor would the expression of our feelings be complete which did not include our admiration of the splendid action of Mrs. Usher, who, immediately on your rejoining the Colours, so unselfishly took upon herself the hazardous and trying duties of a nurse. We join in the legitimate pride and pleasure you must feel that she was appointed, through her own sterling merits, Commandant of the Maples Hospital, Hitchin, but still more so in the innumerable proofs of the love she so deservedly earned from all with whom she came in contact. We trust you will both be spared for many years of useful and happy activity.

Mr. Cecil then called on Mr. Charles Bryant, the *doyen* of the warehouse staff, who has been thirty-nine years in the business, to present the address to Major and Mrs. Usher, together with a silver Nightingale lamp and two silver ash-trays. Major Usher expressed the great gratification which this mark of their esteem afforded Mrs. Usher and himself, and alluded to the good feeling which had always existed between the staff and the directorate, and said he felt sure that in the difficult times ahead if they would all pull together as they had done in the past there need be no anxiety about the future. Before concluding, Major Usher proposed the toast of "The Holloway Staff," whilst the toast of "The Representative Staff at Home and Abroad" was proposed by Mr. Fletcher, and responded to by Mr. William Mair and Mr. Astor Boisselier.

Mr. William Mair then asked permission, on behalf of the whole of the company's staff, to present to Mr. and Mrs. Fletcher, as a token of affectionate regard, a reproduction of a fifteenth-century wine-cup, bearing the inscription "Honor et Gloria solo Deo." Mr. Fletcher, in acknowledging the tribute, said that this culminating surprise had so "knocked the stuffing out of him" that he was at a loss to find words to express for Mrs. Fletcher and himself their intense delight with such a beautiful gift, and their gratitude for the kindly feelings which had prompted it. He did not deny that it had always been his aim and endeavour to take a personal interest in the welfare of each member of their staff, and recognised in the conspiracy of kindness which had just been revealed a generous proof of their appreciation of his efforts. During the five terrible years through which, by the grace of God, they had just emerged it would have been impossible to have carried on the business of the company had it not been for the loyalty and self-sacrificing efforts of their depleted staff. Mr. Lloyd, the head of the manufacturing department, had taken on himself the duties of chemist, analyst, engineer, and technical expert; in fact, there was nothing in which he was not willing to lend a hand. Mr. Cecil, their chief clerk, had undertaken the work of three pairs of hands, and the devoted little band of ladies who superintended the book-keeping and invoicing departments insisted on continuing at the office long after closing-hours. Thus they had not only surmounted all the difficulties inseparable from war, but had overcome most of the obstacles which Government officials had invented apparently for the purpose of obstructing and crippling trade.

Mr. Bascombe, who had to leave during the progress of the luncheon to be present at the Finance Committee of the Lambeth Borough Council, was to have received a silver vase from the staff, but the presentation had to be deferred. The rest of the day was spent in sports and competitions, tea and ices occupying the intervals; and a dance on the lawn concluded a most enjoyable day.



## Dispensing Charges.

**Abstract of a Paper read by Mr. H. B. Hammond, chemist and druggist, at the last meeting of the Sheffield Pharmaceutical and Chemical Society.**

AFTER referring to the paper read by Mr. C. T. Allen at the British Pharmaceutical Conference (*C. & D.*, July 26, p. 98), Mr. Hammond stated that if anything is to be achieved in the direction of uniformity, it is only by exhaustive discussion at meetings of local Associations. He pointed out that the old-fashioned flat rates have given place to a system of cutting which is unprofessional and, so far as dispensing is concerned, is wrong, tending to a very ambiguous feeling towards the craft by the public. An illustration was given as to the kind of charge one meets. The following was handed to Mr. Hammond about nine months ago:

Ol. santal. flav. ...	ziv.	Tr. hyoscyami ...	ziv.
Mucilaginis ...	q.s.	Inf. buchu ad ...	3viii.
Hexamine ..	grs. 160	Ft. Mist.	

He asked what a reasonable charge for that mixture would be, having been told that it was dispensed in Birmingham a week previously for 3s. 9d. The flat-rate system was then reviewed. Mr. Hammond said:

It is from this rate that the present-day confusion arises; there is no co-ordination, practically every pharmacist having his own scale, and the result is anything but flattering. I agree with Mr. Kirkby "that the question of quantity (number of doses) cannot be ignored." I also agree with "Xrayser II." that "our forerunners were substantially right in their method of arranging prices." But we must bear in mind that at the inception of the flat-rate system the drugs used in dispensing were, relatively speaking, of a simple nature and were very much cheaper than they are to-day. The cost of living, wages, etc., cannot be left out. The two following tables from a prescription book for 1838, which we have down at Haymarket, may be of interest:

Scale (1).—Mixtures, 3s.; pills, 6 × 1s. 6d., 12 × 2s., 24 × 2s. 6d.; draughts, 1s. 6d.; leeches, 8d. and 6d.

Scale (2).—Mixtures, 2s. 6d.; pills, 6 × 1s. 6d., 12 × 2s., 24 × 2s. 6d.; lotions, 20 oz., 3s.; 10 oz., 2s. to 2s. 6d.; liniments, 1½ oz., 2s.; 2 oz., 2s.; 3 oz., 2s. 6d.; confections, 2 oz., 2s.; linctus, 2s.; ointments, same rate as confections; blisters, 1s. 6d., (ear) 6d.; leeches, as above; plasters, 2s.; (large), 2s. 6d.

Most of the mixtures were 12 oz., and infusions and decoctions were freshly prepared. To my mind the weakness of the flat rate as applied to modern times is its non-elasticity. There is too much of the "swings and roundabouts" element; it makes no allowance for the difference between

Liq. arsen. ...	3i.	Bis. carb. ...	3iii.
Aq. chlorof. ...	3xiii.	Sod. bicarb. ...	3ii.
		Sp. amm. co. ...	3iv.
		Aq. chlorof. ...	3xii.

With pills it is a different matter, and one notices particularly how much we have digressed in this respect, bearing in mind that there were no machine-made pills in the days of the flat rate's inception. Everyone, I am sure, agrees with Mr. Allen on his main point—that "if dispensing is to be regarded as in itself worth doing, it is necessary for us to raise our charges for this work." THE CHEMIST AND DRUGGIST has urged this for years. Where I am inclined to differ with Mr. Allen is with regard to established charges. These are necessarily a charge upon the gross profits of the business. What we want is to see that the profits on dispensing are adequate to the work involved. Now it comes to this: Our dispensing charges are wrong (or were, for most pharmacists are rearranging their charges). We have the Minister of Labour introducing a Bill for a forty-eight-hour week; also another Bill fixing a minimum scale of wages. Medical men have raised their charges 50 per cent.; we must raise ours, if not 50 per cent., then very considerably. There is no doubt about it, most of our dispensing is not a paying proposition. Insurance dispensing is a dead loss. Mr. Allen's 33½ per cent. net profit on dispensing

is not too much. One always makes one's proprietaries bear more; why not dispensing, which is our legitimate work? What I suggest, as a better way than Mr. Allen's, follows. I claim no originality, as the principle in substance is already practised by many. What we want, however, is more uniformity.

(1) For mixtures we should have a minimum charge for 6 oz., 6 doses ... 1s. 6d. | 8 oz., 8 doses ... 1s. 8d.  
12 " ... 1s. 8d. | 16 " ... 2s. 0d.

Larger quantities in ratio.

This would bring in all the commoner mixtures, such as *mist. gent. alk.* For other mixtures, such as bismuth mixture, I suggest the retail price for each ingredient and container *plus* a dispensing fee. The minimum fee to be 9d., and where emulsification is involved 1s.

(2) Pills (prepared specially), 6 × 1s., 12 × 1s. 6d., 24 × 2s.; pills (stock), 6d., 9d., 1s. 3d.

(3) Powders, as for pills.

(4) Tablets (stock), retail price *plus* 6d. fee; tablets (prepared specially), 6 × 1s. 6d., 12 × 2s.

(5) Suppositories, 2s. 6d. per doz.

(6) Ointments (simple), 1 oz., 1s. 6d.; 2 oz., 2s.; others retail price of ingredients *plus* 9d. fee.

This list could be prolonged to bring in granules, eye-drops, etc.

In addition to this I should like to suggest a private mark for the whole craft—e.g., *Fol. sambuci*, so that the pharmacist who first dispenses the prescription could mark the charge upon his stamp as a guide for future reference by others, and so do away with the oft-repeated phrase, "Mr. So-and-so only charged," etc.

## Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Wednesday, October 1.

Dundee Chemists' Assistants' and Apprentices' Association, Foresters' Large Hall, at 7.30 p.m. Dance. Tickets (lady's 6s. 6d., gentleman's 7s. 6d.) from Miss Jean McMath, 25 Donald Street, Dundee.

South Wales and Monmouthshire Local Pharmacists' Associations Federation, Haverfordwest, Meeting.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C. Council meeting at 10 a.m. Opening of the School of Pharmacy at 3 p.m. Inaugural address by Mr. W. J. Uglow Woolcock, O.B.E., M.P.

### Thursday, October 2.

London (Western) Pharmacists' Association, Pinoli's Restaurant, Wardour Street, W., at 7 p.m. Annual reunion. Reception by the President. Supper, whist-drive, and music. Morning dress. Tickets (6s. each) from any member of the Committee.

CHESHIRE COUNTY PHARMACISTS' ASSOCIATION.—The meeting arranged for September 24 will be held at 4 p.m. on October 8, at the Albion Hotel, Manchester.

WIRRAL CHEMISTS.—A meeting will be held, at the Hooton Hotel, on October 15, at 3 p.m. Speaker: Mr. J. W. Deakin, J.P., on Organisation, etc. All chemists invited.

THE NATIONAL CHAMBER OF TRADE.—The half-yearly meeting of the Executive Council will be held in the Council Chamber, Guildhall, London, E.C., on October 9. Particulars of arrangements from the Offices, Buchanan Buildings, 24 Holborn, London, E.C.

AMERICAN CARBOLIC ACIDS.—The disposal of the Government stock of phenol, comprising about 35,000,000 lb., is to be undertaken by the Monsanto Chemical Co., of St. Louis, and the price fixed as a minimum is 12c. per lb. It is the intention to offer supplies in New York, Philadelphia, and St. Louis. It is understood that export business is prohibited.

A MEETING of the Bolton branch of the National Association of Chemists' Assistants was held on September 19, Mr. Lee (President) in the chair. A report was received from the deputation which met the Bolton Pharmacists' Association on the question of shorter hours. In place of Mr. Lee, who is leaving the town, Mr. Allison was elected *President* and Miss L. Thompson *Secretary*. A whist-drive will be held at Collinson's Café on October 15. Suggestions are in hand from the Social Committee for football and magazine clubs. The next general meeting will be held on October 17.



## Grocers' Exhibition.

AFTER an interval of several years, the annual International Exhibition and Market of the Grocery, Provision, Oil and Italian Warehouse and Allied Trades was opened on September 20 at the Royal Agricultural Hall, Islington, London, and continued until September 26. Some of the exhibitors were also showing at the Confectioners' Exhibition (*C. & D.*, September 13, p. 71), and to these only a brief reference need be made. Interest in catering for the eye of prospective customers was fostered by the promoters of the Exhibition and by several advertisers, as in previous years, in a series of competitions in window-dressing and counter-display. The efforts of the entrants were quite an attraction to patient crowds of sightseers. Many prizes were offered also for skill in performing the various operations peculiar to the grocery trade—blending tea, for instance. A poster competition, to be decided by the votes of the visitors, was conspicuous at the east end of the Hall. The large number of entries in the honey and beeswax competitions must have brought pleasure, and to some degree perplexity, to the adjudicators, for, judging from appearances only, the average quality seemed to have reached a high standard. The honey was in comb and (extracted) in jars suitable for counter-display and retail sale. Some of the stands presented quite an original appearance, that of DAY & MARTIN, LTD., being a reproduction of the "Old White Hart Inn" immortalised by Charles Dickens. Sam Weller was there to polish the boots of those who wished him to do so, but there the similarity ended, for he used modern polishes. A gipsy encampment, "Gipsyville," with caravan, was an excellent attraction for Gipsy black lead and the other specialties of HARGREAVES BROS. & CO., LTD.

### BEEF PRODUCTS, BEVERAGES, ETC.

OXO, LTD., had an interesting display, apart from their specialties, such as "Oxo" in various packings, "Lemco," "Bifti," etc., which were shown in profusion at the central position of the Great Hall, where the company's exhibit stood. JARDOX, LTD., had a fine show of their preparation "Jardox," which they describe as "the real beef-tea." For those who cared to taste the article every facility was granted, and emphasis laid on the fact that seasoning should be added to taste, as there is practically none in the product itself. The MARMITE FOOD EXTRACT CO., LTD., exhibited their speciality "Marmite," and indicated the many different uses to which it can be put. The LOUIS COCOA CO. had, among other exhibits, an attractive coffee tablet which dissolves instantly in boiling water, yielding, with added sugar and milk, an acceptable beverage. The products are packed in convenient tin containers. The WATFORD MANUFACTURING CO., LTD., had an attractive display of the well-known Freeman's Foods and Vi-Cocoa in the centre of the Great Hall.

### FITTINGS, MACHINERY, ADJUNCTS, ETC.

W. & T. AVERY, LTD., had a large exhibit, including price-indicating scales, visible weighers, etc. A specimen of what is described as the chemist's balance, and which when carrying a load of 2 lb. is sensitive to 1 grain, was included in the display. CALEB DUCKWORTH showed, among other exhibits, the "Columbo" patent mixer. SOUTHALL & SMITH were showing patent automatic weighing machines calculated to save labour. YOUNG'S PATENT HYGIENIC BIN CO. had an exhibit of useful storage bins, trucks, etc., and a working exhibit mixing and filling powders into containers. H. C. SLINGSBY showed patent trollies, hand-carts, and similar goods for facilitating transport. FLUGEL & CO., LTD., had on view specimens of their soda-fountains and a "perpetual syphon" for the counter. A special feature was made of the fact that the water is automatically filtered before entering the filling section of any of the plant made by this company. JOHN GOSHERON & CO. and GUMMED PAPERS, LTD., presented the latest ideas in parcel-sealing machines and gummed paper in rolls which, they consider, is an im-

provement on string or sealing-wax. JAMES SPICER & SONS, LTD., had a show of waxed papers, etc. The SWIFTOGRAPH DUPLICATOR CO. exhibited filing cabinets, duplicator and other time-saving equipment. MONO SERVICE CONTAINERS, LTD., exhibited containers which, in the prevailing scarcity of tins, should be acceptable among pharmacists for packing malt, waterglass, etc. LEWIS BAILEY & CO. were demonstrating their appliances for lightening domestic work. These included the "Elbie" dustless dusters and mops, etc. VENESTA, LTD., showed specimens of articles made with venesta plywood, which included trays, confectionery cases, etc.

### MEDICATED WINES, ETC.

A number of stands drew attention to several wines which are familiar to pharmacists. An arresting display was that of the NUVITE CO., LTD., which has in the forefront a giant plaster cast of grapes, emblematical of the origin of the wine, and a young lady in white and with angel wings who appeared to be a living replica of a figure appearing on one of the company's showcards. High-grade port wine is the basis of the article, and it is stated that large supplies of "Nuvité" were sent to hospitals by command of Queen Alexandra. A non-alcoholic form containing the medicinal properties of the original preparation has also been placed on the market. WINOX Wine Food is also tastefully shown. Quality of the basic wine used is here also insisted upon, and "Winox" is stated to be a non-secret preparation. Many doctors are said to prescribe this product for their patients and for themselves, and a letter, from a chemist, eulogising its tonic properties is utilised to indicate the favour that Winox finds in drug-trade circles. "WINCARNIS," the wine food prepared by Coleman & Co., Ltd., is also shown, and a preparation with quinine is also available. SPARKLETS, LTD., exhibited their syphons, bulbs, etc., to which they have again turned their attention after several years of war-work. For the duration of the Exhibition only, thirteen syphons were supplied on orders for twelve. IDRIS & CO., LTD., had a large variety of "minerals" tastefully displayed. Lime-juice cordial, non-alcoholic and British wines, including what is described as British Tawny Wine—this latter rivalling in flavour, it is stated, many of the wines coming from Portugal—and Karn Wine are all in demand among pharmacists.

### MISCELLANEOUS.

"Clarocit," the exhibit of TALBOT & HENDRY, ought to be a ready seller among dentists and surgeons, to say nothing of the layman who wears eyeglasses, for it prevents the condensation of moisture on all kinds of glass. Applied to electric lamps and globes also it is said to increase the brilliancy of the light. WILLIAM EDGE & SONS, LTD., had a pleasing show of their many preparations, but pharmacists would be most interested in "Movol," the sale of which is for the most part confined to the drug-trade, and in "Silmirol," the latest speciality, which is a polishing-wool for metal articles. The OLIVA CO. were offering to supply olive oil in two qualities, either in bulk or bottled and labelled. Distinctive labels are reserved for pharmacists. A. & L. PORTER exhibited a vermin-destroyer, entitled "Killezee," for exterminating cockroaches, beetles, or crickets. The point about the tablets is that they are economical to use, as it is claimed that the same lot can be used many times over. JOSEPH THORLEY, LTD., showed, among their many preparations, their food for cattle and horses, "Lactifer" calves' meal, "Vitum" concentrated horse powders, and a range of their smaller specialties, including pig powders, pig worm-powders, and "Luxum" pig meal. MARTIN, PHILLIPS & CO., LTD., specialised partly on carded goods which should appeal to pharmacists. In the display was included "Itsit," a balm for weary feet, "Hairtone," brilliantine, "Fixit," etc. The lung-tonic and other preparations of W. T. OWRIDGE, LTD., were not on view, but there was a plentiful supply of showcards and other advertising matter displayed at the stall, which was in the charge of Mr. Turner. F. W. HAMPSHIRE & CO., LTD., specialised on their "Keybells" Compound Balsam of Aniseed, and exhibited the numerous ingredients which go to make the medicament. EDWARD BIRKS & SON had



a show of junket powder, along with custard powder and preparations of a similar nature. WHITE, TOMKINS & COURAGE, LTD., exhibited an assortment of their numerous specialities, including jelly crystals, custard powders, etc. The CHISWICK POLISH Co. had a comprehensive show which included, in the forefront, their "Cherry Blossom" Boot Polish. In the exhibit, also, were the Martindale cleaning preparations (furniture polishes, boot polishes, etc.) and the "Mansion" Floor and Furniture Polish. Among the other exhibitors were included the CALDER YEAST Co., LTD., the MILTON MANUFACTURING Co., LTD., CAMWAL, LTD., AUTOMATIC SCALE Co., LTD., "O.T." LTD., the PEACE PILLOW Co., the POLIVIT MANUFACTURING Co., LTD., the WESTERN HONEY Co., the AMERICAN COCK-ROACH AND BLACKBETLE SOLVENT Co., and R. HYDE & Co., LTD.

## Marriage.

**BISSET—SMITH.**—At the St. Andrew Hotel, Edinburgh, on September 6, by the Rev. James Black, assisted by the Rev. Robert Inglis, Rowland Parker Bisset, chemist and druggist, Dumfries, third son of the late Mr. John L. Bisset, Rio de Janeiro, and of Mrs. Bisset, Holt Loan, Arbroath, to Marion Russell, daughter of Mr. George Smith, J.P., 41 McDonald Road, Edinburgh.

## Deaths.

**BALL.**—At Southport, on September 17, of angina pectoris, Mr. George Ball, Ph.C. (George Ball, Ltd., chemists and wholesale druggists, 179 and 181 Lord Street), aged sixty-nine. Mr. Ball was a native of Southport. He qualified, after studying at the Bloomsbury Square School of Pharmacy, in 1870, and passed the Major examination in 1873. Shortly afterwards he acquired the business of Mr. T. Garside, Lord Street, Southport, which he successfully developed and eventually converted into a limited company. In 1907 he retired from active participation in the management and went to live at Pannal, where his wife died some years later. Ten months ago he married again and returned to Southport. He is survived by a widow and two sons—Mr. Henry Ball, who is a solicitor in London, and Dr. Arthur Ball, Middleton, Manchester. He also leaves a brother, Mr. Henry Ball, Ph.C., who was Mayor of Southport in 1915-16. The funeral took place at Southport on September 20, the Southport Pharmacists' Association being represented by Mr. James Righton, who had known Mr. Ball for fifty-two years.

**BATES.**—At Arran Lodge, Leamington Spa, on September 13, Mr. James Bates, Ph.C., aged ninety-two. Mr. Bates passed the Major examination in 1853, and soon afterwards opened in business at Wellington, Salop. He was joined, some twenty-five years later, by Mr. E. J. Hunt, who, after Mr. Bates's retirement, continued the business under the style of Bates & Hunt. Mr. Bates took an active interest in the welfare of his town and in various forms of sport.

**HEAD.**—At Colchester, on September 23, of heart failure, Mr. Samuel Head, Ph.C., aged thirty-five. Mr. Head was well known and much respected in Colchester and the district. He took a keen interest in the Volunteers, and was an expert with the rifle. He leaves one child.

**OWEN.**—In London, on September 24, suddenly, Mr. Alfred Owen, chemist and druggist, 265 High Street, Tooting, S.W. 17. Mr. Owen, who qualified in 1897, was the proprietor of several pharmacies in the Tooting district. He was in business until two days before his death; an operation had to be performed unexpectedly, and he failed to rally.

**SCOTT.**—At 38 Ann Street, Stonehaven, on September 14, Mr. James Scott, chemist and druggist, late of Edinburgh and Maybole, aged sixty-nine.

**SQUIRE.**—The funeral of the late Sir Peter Wyatt Squire (Squire & Sons, Ltd., 413 Oxford Street, London, W. 1), whose death was recorded in our last issue (p. 54), took place at Shepperton Church on September 19. The church, which stands close to the river that Sir Peter so well knew and loved, was filled by a representative congregation, including Lady Squire, Mrs. Parton, and Mrs. Johnson (daughters), Miss B. Bremner, Mr. Johnson, Major Squire, Miss Squire, Mr. and Mrs. A. Bremner, Major-General Sir William Donovan, Mr. and Mrs. Tyndall, Mr. J. W. Gilmer, Captain Mullings, Mr. T. B. Rixon, Mr. T. Mavrogordato, Mr. E. T. Neathercoat, Ph.C. (representing the Pharmaceutical Society of Great Britain), Mr. W. S. Boyack, and several members of the Oxford Street staff. "O Rest in the Lord," and other appropriate voluntaries, were played while the congregation was assembling. The service, which was choral, was conducted by the Rector of Shepperton (the Rev. F. J. Salt), and included the hymn, "Now the labourer's task is o'er." As the procession, headed by the choristers, left the church, the Dead March from "Saul" was rendered. There were many exquisite wreaths, and the ceremony, in its simple dignity, formed a fitting tribute to a great career.

**TRAILL.**—At Aberdeen, on September 19, Mr. James William Helenus Traill, M.A., M.D., F.R.S., F.L.S., Regius Professor of Botany at Aberdeen University, aged sixty-eight. Professor Traill, who is remembered in pharmacy as an examiner in botany to the Pharmaceutical Society, had a distinguished career as a botanist and zoologist. His professorship at Aberdeen dated from 1877. He leaves a widow, one son, and three daughters.

## Personalities.

**MR. W. H. GRIMSHAW**, chemist and druggist, Blackburn, has been elected a member of the local committee on profiteering.

**MR. D. ABRAMS**, late honorary secretary of the Manchester and District Chemists' Assistants' Association, has taken up a course at Manchester University.

**DR. H. D. KELF**, who was until recently a pharmaceutical chemist in business at Bromley, Kent, has been appointed Assistant County Medical Officer of Health for Hampshire.

**MR. J. W. OPENSHAW**, chemist and druggist (Booth & Openshaw, Ltd., chemists, Darwen Street, Blackburn, Lancs), has recently spent three weeks in Belgium, visiting some of its battlefields.

**MR. F. ASHLEY ROGERS**, Ph.C., has resigned his position of senior London representative of Burroughs Wellcome & Co., and has joined the staff of British Colloids, Ltd., Chenies Street, W.C. 1.

**MR. HARRY BERRY**, Ph.C., Aberdeen, formerly of the Northern College of Pharmacy, Manchester, has been appointed lecturer on pharmaceuticals at the Birmingham Municipal Technical School.

**MR. F. O. SHOTT**, after four years with the Colours, has joined the representative staff of Prichard & Constance (Wholesale), Ltd., and is representing "Amami" in the South-Western counties.

## Wills.

**MR. WILLIAM MARKHAM COLCHESTER**, Ph.C., 53 Coronet Street, Hoxton, who died on August 24 last, left estate valued at 139*l*.

**MR. HENRY ATKINS GIBSON**, chemist and druggist, of 2 Stuart Street, Leicester, who died on July 8, left estate valued at 5,524*l*. 5*s*. gross, with net personally 348*l*. 10*s*. 5*d*.

**MR. WALTER ROBERT KING**, Torville, Westeliff, Southend, joint governing director of Typke & King, Ltd., manufacturing chemists, Mitcham, who died on June 22, left estate of the gross value of 112,688*l*. 14*s*. 8*d*., with net personally 24,386*l*. 8*s*. 5*d*.



## Trade Notes.

**AEROPLANE DELIVERY.**—One of the packages carried by a Handley-Page aeroplane last week from London to Paris contained a quantity of clinical thermometers sent in fulfilment of an urgent order by Baiss Brothers & Co., Ltd., Bermondsey.

**LOCKWOOD'S No. 9 PILLS**, which are being extensively advertised at the present time, are obtainable from the wholesale distributing agent, W. Edwards & Sons, 157 Queen Victoria Street, London, E.C. 4.

**MANI-CLIP** is a new nail-clipper combined with a cleaner and file, of which Henry C. Quelch & Co., 4 and 5 Ludgate Square, London, E.C. 4, have just received the first consignment. The Mani-clip is illustrated in Messrs. Quelch's advertisement.

**GENATOSAN, LTD.**, 12 Chenies Street, London, W.C. 1, warn the trade that this winter there may be a shortage of Sanatogen and Formamint. The reasons are stated in the company's advertisement, which also urges chemists to obtain stock whilst it is available.

**KOPATINE HAIR PREPARATIONS** consist of plain henna and hair-colouring shampoos and a liquid hair-colouring called "Kopatine Instantaneous." The advertisement in this issue of Kopatine Cie, 34 Buckingham Palace Road, London, S.W. 1, gives further particulars.

**CHYMOI FOOD.**—The Chymol Co., Ltd., Queen's House, Kingsway, London, W.C. 2, announce new packing and prices of Chymol Food, which come into force from October 1. There are two sizes for retail sale, packed in glass jars, a larger size for hospitals being in tins.

**LAURENCE'S HAIR DYE.**—A reduced fac-simile of the new showcard sent out by the proprietors of Laurence's hair dye (C. R. Harker, Stagg & Morgan, Ltd., Devon Wharf, Mile End, London, E. 1) is given in the advertising pages of this issue. Particulars are also given of a bonus offer.

**CLAN PROPRIETARIES.**—Thomas Christy & Co., 4, 10, and 12 Swan Lane, Upper Thames Street, London, E.C. 4, have been appointed agents for Clan, Ltd., whose specialities are pile powders and rheumatism powders. These retail at 3s. each, and the wholesale prices are arranged on a generous profit basis.

**AMAMI PREPARATIONS.**—If customers could be induced to carry out faithfully the manicure ritual outlined in the advertisement of Prichard & Constance (Wholesale), Ltd., 469 Holloway Road, London, N., the demand for Amami preparations would be almost unlimited. The more Amami used the more customers for the chemist.

**BIRKBECK COLLEGE.**—The next session at the Birkbeck College, Bream's Buildings, London, E.C. 4, will commence on September 29. Members of the staff will attend to interview new students from 11 to 1 and from 6 to 8, and the Students' Union will hold a reception from 5 to 7 p.m. Day and evening courses in science subjects for the examinations of the University of London begin on the following Tuesday.

**GLAXO TERMS.**—The proprietors of Glaxo Food announce in their advertisement in this issue that new terms upon which Glaxo will be supplied come into force on October 1. The purpose of the change is to confine the distribution of Glaxo to the wholesaler, from whom, in future, the retailer is to obtain the food. The manufacturers contend that each branch of trade has its special function, and the change indicated is intended to harmonise the conditions according to these views.

**ANGLODOL DENTAL CREAM.**—Anglodol Ltd., Odol Chemical Works, Berkhamstead, have introduced a new dentifrice under the name of Anglodol Dental Cream. It is packed in collapsible tubes, which are enclosed in blue and white cartons. The cream is pleasant to use and leaves a refreshing feeling in the mouth. The company announce in this week's advertisements a new schedule of retail and trade prices for British Odol, and also refer to the introduction of Anglodol liquid dentifrice, a cheaper form of British Odol.

## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped.

- (From "The Trade-marks Journal," September 24, 1919.)
- "DELCOBLAST"; for a chemical for etching glass, etc. (1). By H. E. Davis, 11 Sun Street, London, E.C. 2. 389,922. (Associated.)
  - "RHEMDA"; for chemicals (1 and 2) and for medicinal chemicals (3). By Société Française d'Énergie et de Radio-Chimie, 51-53 Rue d'Alsace, Courbevoie, France. 390,041/042/043. (Associated.)
  - "GENIE"; for all goods (1). By Texalo Manufacturing Co., 3 Nelson Road, Trafalgar Square, South Shore, Blackpool. 393,473.
  - "SPECTRUM BRAND COAL TAR DYES" and device for coal tar dyes (1). By the London Dye Manufacturing Co., Ltd., 86-94 High Street, Stratford, London, E. 15. 393,699.
  - Triangular shaped device; for all goods (1). By Newport Chemical Works Inc., 1,112 First National Bank Building, Milwaukee, Wisconsin, U.S.A. 393,771.
  - "WARDEN" under picture of castle and man on guard; for chemicals (2). By J. Barrington & Sons, Ltd., 202 Great Britain Street, Dublin. 391,356.
  - "STICTINE"; for fruit-tree banding material (2). By the Yalding Manufacturing Co., Ltd., near Hampstead Lane, Yalding, Kent. 393,268. (Associated.)
  - Picture of hand holding grenade; for chemicals (2), and for goods (47). By W. Mills, 192 Bridge Street, West Birmingham. 391,762/780.
  - "CARBOLYPTA"; for chemicals (2). By Taylor's Automatic Disinfectant, Ltd., 56 Old Hall Street, Liverpool. 393,413.
  - "CHILBLAIN SURE SMO BRAND"; for medicinal chemicals (3). By C. Mickleam, Abbot's Mead, Elstree, Herts. 388,852.
  - Device of two handbells and letter "B" in oval ("B" disclaimed); for ointment and corn plasters (3). By H. H. Farrar, 11 Chapel Lane, Meanwood, Leeds. 390,654.
  - "B I P BRAND OINTMENT"; for ointment (3). By T. Whitehead, 237 Manchester Road, Hollinwood, Oldham. 390,633.
  - "CEMTON"; for medicinal chemicals (3) and for perfumery, etc. (48). By C. & E. Morton, 107-109 Leadenhall Street, London, E.C. 3. 393,371/2. (Associated.)

## Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

- |   |  |
|---|--|
| 28/36. "Vettigras," for destroying moths.                         | 30/73. Jamieson's Electric Ointment.     |
| 28/36. "Parapeptus," for fits.                                    | 29/19. "Paciderma" powder, etc.          |
| 29/58. "Urosaline," for rheumatism.                               | 32/46. "Brama Leven Elixir."             |
| 30/74. "Neuron," for shell-shock.                                 | 33/42. Dr. Funnell's Little Liver Pills. |
| 32/9. Crescent Mapleine Co., of Cincinnati, Ohio, U.S.A.; agents. | 33/33. "Aene" pure wool crepe bandage.   |
| 30/15. "Cantassin" (N.C.C. Co., Twickenham).                      | 33/33. "Aero."                           |
| 31/73. "Brimal," employed in textile industry.                    | 33/33. Wheatley's food for children.     |
| 30/73. "Zom" pile cure.   | 34/74. Shorman's Patent Syphons.         |

### INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

- |   |  |
|---|--|
| Albulactin, 34/28                       | "Parmint," 34/28                                   |
| "Blanco," 34/28                         | Pierre's, Dr., Dentifrice, 34/28                   |
| Calcium Carb. Precip., 34/47            | Pill-making Machinery, 32/12                       |
| Capsules, empty, 29/47                  | "Quick White," 33/11                               |
| Castor Oil, 23/46                       | "Ratinol," 30/66                                   |
| Chinosol, 32/10                         | Razor cases, 30/41                                 |
| Cholekinase, 29/62                      | Sapo Castil., B.P., 34/47                          |
| Congreve's Elixir, 34/28                | Skuse's Herbal Tablets, 32/71                      |
| "Connaught" feeding-bottle, 19/24       | Sodium Morrhuate, 29/48                            |
| Ether, 33/33                            | Starch, 26/53 and 32/64                            |
| Felix frères poudre, 33/34              | Stramonium Cigarettes, 34/21                       |
| "Isola" flasks, 32/71                   | Tartaric Acid, 33/35                               |
| Japanese vacuum flasks, importers, 27/8 | Transparent Showcards, 34/39                       |
| Mackay's "Auraline," 33/33              | Vale's "Krekodyne," 34/35                          |
| Naphthalene Balls, 33/35                | "Vellskyn" beauty sachets, 34/35                   |
| Oakey's Silver Soap, 34/28              | Wrigley's "Spearmint" chewing gum, 32/14 and 32/64 |
| Paper Bandages, 31/48                   |  |



## Observations and Reflections.

By Xrayser II.

### Your Timely Article

on Insurance dispensing terms will concentrate the attention of the trade upon what is the most urgent business at present before us, the terms we must secure for the coming year. As yet the Society has given us no lead, but to give a lead in such a matter is not the Society's way. The question has been mooted at various Association meetings, but with one or two exceptions the Associations are extremely vague in their views; candidates at the recent L.A.E. election were equally vague in such addresses as I have seen, the most they said being that they were in favour of the demand for better terms, which is virtually, to say nothing. The fact appears to be that, as usual, we are approaching the time when terms must be fixed with no definite policy in our minds and with no official guidance whatever. When the crisis actually comes we shall probably find ourselves committed to the acceptance of a bargain made without our knowledge. Have we sufficient confidence in our leaders, after all that has lately happened, to be content with this outlook? I find it difficult to believe, but it is quite possible that we are so apathetic as to remain quiescent until it is too late to move in the matter. Meantime

### The Terms You Suggest

are, I fear, much higher than we can ever hope to get, though they are probably not higher than circumstances would justify us in demanding if there were any likelihood of our getting them. Personally, I should say that the doubling of our fees is the utmost it would be good policy to make any stand for, and I am not sure whether it would not be better policy still to make a firm and final demand for something a little less than this, say, a three-fourths advance on present terms. I am in any case convinced that to ascertain (if that is still possible) the lowest terms the trade generally would accept, and then formally demand these and refuse to argue or bargain further, would be our best course. We have had sufficient experience to know what the work costs us and is worth to us, we have shown our reasonableness and unselfishness, we have also invariably found ourselves worsted in attempts to bargain, and the time is come when we should set our backs to the wall and refuse to budge. As for the threats of what may be done under the Ministry of Health, we have let such craven fears govern us too long: if we do not make a stand now we shall be beasts of burden for ever.

### Federation

appears from your reports of Local Association affairs to be in the air, and I see that the Southern Division is considered by those belonging to it to be too large. I note with pleasure the proposal to divide it into three parts, and wish the same could be done in all the areas. I should like to see the L.A.E., and the Council too, elected by twenty-one equal groups of Associations, and don't see why the suggestion made at Eastbourne should not be universally adopted. We might then hope for real representation, but with the present large and lumbering constituencies it is almost past praying for. I hear from Scotland, by the way, that the Federation idea is increasing in favour there.

### The Cornflour Case

which you reported recently is interesting for many reasons, and especially to the student of words. The contention of Mr. Thorpe that cornflour should be the product of maize would have been sound enough some years ago, for both the word and the thing came to us from America, where *corn* is distinctively applied to maize (Indian corn), other descriptions of corn, such as wheat, rye, etc., being called collectively *grain*. Cornflour was originally the meal of Indian corn, and when the name came to be applied to rice-flour it was with the addition of the word "British." This, however, is now ancient history; the latest dictionaries admit "cornflour" as applicable to the meal of any grain.

### The Divorce of Diplomacy

from commerce, of which your contributor "X. F. O." speaks in his illuminating article on "Quinine as an Economic Weapon," is but one aspect of a greater evil, the gulf between knowledge and politics in general. The last thing required of the head of a Government Department in this country is any special knowledge of the business of his Department, and the last thing the Department itself thinks of achieving is the acquirement of knowledge except—one might almost say automatically—through channels already existent as a part of its own organisation. It is symptomatic of the attitude of Government towards knowledge that almost the only "economy" practised by it during the war was the closing of museums and other educative institutions and the suppression of the "Kew Bulletin," whilst its first response to the popular cry for retrenchment since the war was the suppression of the "Weekly Review of the Foreign Press," issued with such admittedly useful results by the Intelligence Department of the War Office. This review was, indeed, of untold advantage to many Government Departments, by whom its suppression was much regretted. It seems to have done much towards the removal of that obscurantism of theirs, of which I have spoken, but if their eyes have been opened to the advantages of knowledge the Government's have not. I am glad to say there is a prospect of this publication being continued as a private concern, but Government is in no way to be thanked for it. Having seen several of its special supplements weekly during the last two or three years I sincerely hope the attempt to carry it on will be successful: its value as a commercial guide can hardly be overestimated.

### The Influence of Alcohol

on manual work is the subject of the Medical Research Committee's Special Report Series, No. 34, written mainly by H. M. Vernon, M.D. The experiments recorded were admittedly tedious, and the Report is somewhat so, but the results arrived at and this statement of them are extremely valuable. The effect of alcohol on the manual worker depends largely upon its influence upon neuro-muscular co-ordination, and the extent to which alcohol in moderate and in larger doses has this influence was the first subject of experiment. Three sorts of work were selected, typewriting, target-pricking, and the working of an adding machine, and the workers consisted of eight men and five women, most of whom were moderate or occasional drinkers, while one had formerly drunk to excess but had for some time returned to temperate habits: he was found to be much less susceptible to alcoholic stimulus than the rest. The results may be briefly stated thus: A very moderate dose, such as a single glass of port (=18.5 c.c. of alcohol), when taken with food, had little or no appreciable effect on the speed or quality of the work done; doses of 30 c.c. and of 60 c.c. reduced speed and increased the number of mistakes in proportion to the amount taken, the ill effect being in all cases nearly doubled if the dose were given on an empty stomach; the decrease in speed and increase in mistakes varied with the amount of dilution, but not as much as had been expected; the maximum effect was reached in about half an hour when the stomach was empty, a little later when it was full; wines and potable spirits (whisky, etc.) were found to be more toxic than pure diluted ethyl alcohol, and claret more so than port. In no case had alcohol an appreciable beneficial effect on the work. Due attention was paid to the varying susceptibilities of different persons, but the effect of moderate doses on abnormally tired bodies does not seem to have been sufficiently tested, and its effect on those who are seriously run down not at all.

How IT STRUCK THEM.—Not very long ago a pharmacist in a Scottish town had to help the local carrier to remove a large case from his van, and between them they contrived to let it fall to the ground. "It jist struck me," said the carter, "that you'd let the case fa'." "It struck me, too," rejoined the chemist with a forced smile. "but it was on the toes!" And then it struck them both that it was the wrong case.



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**A**n announcement of particular  
interest to you appears in  
this issue on page 44

## Reichers' Concentrated Liquors

are standardised and therefore always to be relied upon, and official preparations made from them, fulfil all the requirements of the British Pharmacopœia.

## Editorial Articles.

### Poison Legislation.

SIR WILLIAM COLLINS contributes to the "British Medical Journal" an article dealing with the international control of drugs which is a *résumé* of the steps that have been taken to stop world-wide traffic in narcotic drugs. It deals chiefly with the reasons that led up to the International Opium Convention and with the position at the moment when the ratification of the Peace Treaty will compel Germany, which has hitherto refused to agree to the control of the manufacture and sale of morphine and cocaine, to adopt the measures which many other nations have agreed to as a means of limiting the evil of the indiscriminate sale of these alkaloids. These matters have been referred to in THE CHEMIST AND DRUGGIST as they have occurred, and therefore need not be repeated. We note that China is given first in the list of countries which have signed and ratified the Opium Convention, although recently the information came to hand that that country had resumed the cultivation of the opium poppy. Sir William Collins refers to the temporary restrictions which have been placed on the sale of opium and cocaine by Defence of the Realm Act regulations, and ignores the



fact that effective control over the sale of these drugs has existed for over fifty years. He states:

These temporary limitations, which are considerably in excess of our ordinary pharmacy legislation but yet not thoroughly effective, will before long come to an end, and it becomes a question whether the new legislation flowing from the Opium Convention will be ready and in force against their withdrawal.

Reference is then made to the hostility which has shown itself against keeping in force war emergency regulations and the doubtful legality of the proclamations prohibiting the importation of opium and cocaine, and Sir William adds: "It is of the utmost importance that Great Britain should set an example by expediting the enactment of such pharmacy legislation as will be necessitated by the coming into force of the Opium Convention." He urges that the Home Office Bill to effect this be made public as soon as possible, so that its terms can be studied. Now, Sir William Collins is not a man to whom pharmacists would attribute a friendly attitude towards themselves. He has been the means of placing unqualified persons on the Register of Chemists and Druggists, and therefore must be regarded as an opponent of the conclusion of experts that the education of the vendor is the best protection for the public. The Cocaine and Opium Regulation and the Army Council Order regarding the supply of drugs to troops never received the sanction of Parliament, and in themselves are stupid examples of what Government departments with an imperfect knowledge of the poison laws of the country consider justified. According to Sir William Collins, these measures are "yet not thoroughly effective," which seems to foreshadow further plunges in legislation by the amateurs who have in war-time been permitted to tinker with the laws of the country. Fortunately, any measure of this kind will have to come before Parliament, and chemists should stand a chance of securing a hearing. We urge upon chemists to discuss the matter at meetings of local Associations, and, above all, see that the Pharmaceutical Society is kept informed of the opinions of the drug-trade on this matter. We do not want any more secret pledges to the Government to be given by the officers of the Society; this is a point which chemists might emphasise in their communications to the Pharmaceutical Council.

### Government Control of Quinine.

ONE thing is clear in connection with the Government's apparent delay in relinquishing control of quinine, viz.: That the Dutch manufacturers are under no obligation whatsoever, beyond those contracted in the ordinary course of commerce, to place quinine on the market in this country. On the contrary, the latter could, if they so desired, prevent any quinine from reaching the United Kingdom at all, or in any case dispose of their stocks to other destinations whence this country might have to buy ex-second-hands at very high prices. At the same time, so long as there is no interference in the ordinary course of trade by the British Government on the one hand and the Netherlands Government on the other, the Dutch quinine manufacturers will supply this country with quinine sulphate in quantities which should prove adequate to maintain the United Kingdom's large export trade in the alkaloid, besides covering the small quantities consumed in this country. The standard ruling prices for quinine sulphate are fixed—naturally so—by Amsterdam. As it is the Dutch who have the goods to dispose of, it is the Dutch who have the right to fix prices at which they sell. On the other hand, the Dutch could decidedly, under present conditions of sale in this country, go elsewhere with their goods, and thus the whole position in regard to future supplies of quinine for British trade would be reduced to the same precarious state of affairs as at one time existed during the war. Meanwhile the controlled price at which quinine sulphate may be sold in this country is 2s. 11d. per oz., a ridiculously low figure compared with present-day prices of this alkaloid in other countries. What, therefore, do the Government hope to accomplish by maintaining con-

trol of quinine as at present constituted? So far as can be gauged for the moment, the maintenance of control on present lines will effect nothing more than the deadlock which already exists in the trade. In any case, therefore, it would appear that the Government must see their way to a modification in the existing control, otherwise the position can only result in the shifting of the London quinine market abroad. Apart, however, from the above considerations, the amount of quinine sulphate required for home consumption in this country is infinitesimally small compared with the amount required for handling by the export trade. On the assumption, therefore, that it is a decided policy of the Government to do all that they can in the present financial status of this country to encourage export trade, what alternative have the Government but to acquiesce in Dutch conditions of supply, if to refuse to do so would be not only to endanger the future of quinine supplies for home consumption in Great Britain but to rob British trade of a valuable export commodity? On the other hand, however, we understand that as matters are at present the Government are refusing licences for the export of quinine to America. Any further delay, therefore, on the part of the Government can only go to create a bad impression and the loss to British trade and of the London quinine market. Meanwhile the consumer in this country can have little interest either one way or the other in the solution of present difficulties, since the amount of quinine normally contained in medicine is not sufficient to enable him to appreciate the difference in changing values. As a matter of fact, an advance of even a shilling in an ounce of quinine would be a fraction of a farthing a dose. All, therefore, that the consumer requires to know is, that he can be sure of getting his quinine whenever and in whatever form he wants it.

### German Poison-gas Factories.

REFERENCE has been made several times in these pages to the degrading part which German chemists took in providing lethal gases for poisoning the troops fighting with honest weapons against the German Army. Details are now to hand as to the extent of this traffic, and as the German poison-gas factories referred to will soon be asking British chemists to buy their products, it is as well again to remind our readers of the facts. First there is the Bayer Company, whose Leverskusen works are in territory occupied by the Allies. This company produced 12,000 tons of diphosgene, 4,800 tons of dichlorethyl sulphide (mustard gas), 6,000 tons of chlorpicrin, and 500 tons of xylol bromide, all used in the contemptible form of warfare which will for ever be associated with the name of Germany. Meister, Lucius & Brünig, another house which before the war supplied this country with many pharmaceutical chemicals, made during the war the following poison-gases: Diphosgene, 3,616 tons; diphenylchlorarsine, 3,000 tons; ethyl dichlorarsine, 1,092 tons; phenyliminophosgene, 721 tons; dichlormethyl ether, 233 tons; chlorpicrin, 1,127 tons; and bromacetone methylethylketone, 1,069 tons. Kalle & Co., Biebrich, prepared for the same infamous purpose phenylarsenic acid and phenyl mustard oil, and the Badische Anilin und Soda Fabrik, Ludwigshafen, made at their poison-gas factory 10,682 tons of phosgene, 7,026 tons of dihydroxyethyl sulphide, 1,600 tons of phenylarsenic acid, and 840 tons of ethylarsenous oxide. It will be remembered that under the Peace Treaty the Germans are forbidden to prepare poison-gases of this nature, and during the occupation of Germany the Allies are to control the processes carried out in the chemical works. These manufacturers are beginning to arrange for sending their chemical products to this country, but there is no reason to believe that the future trading of Germans will be based on higher moral standards than they have shown during the past five years. Here is a word-picture of how Germans treated the chemical works in France when they had the opportunity. It is the impression of an American visitor to the war-devastated districts of France:

The most impressive scene of destruction that I visited in France was the sight of what was the great chemical



plant at Chauny. This, the oldest chemical works in France, where Gay-Lussac did his famous work on the manufacture of sulphuric acid, where Courtois discovered iodine, and where plate glass was first made; had grown with the times, and was among the largest factories in France. Around it was a thriving town of about 15,000 inhabitants, with some excellent modern public buildings. When the Germans in their first retreat were forced to leave the place they dismantled the factory and carried away everything that was portable. The fortunes of war brought them back, and before they left a second time a regiment of soldiers was put to work to destroy systematically the factory and the entire town. For a month they kept at work, and when they withdrew but a few bricks were left standing. Every boiler had been blown up with dynamite, and every tank too heavy to be carted away rendered useless. About half an acre was covered with chemical stoneware of all kinds; each piece had been broken with a sledge hammer. Nothing was too small or too large to escape destruction. And to make sure of a good job everything that would burn had been set on fire. Professor Moureu, with whom the wreck was examined, was speechless—there were no words, he declared, in the French language to describe what was before us, or to analyse the spirit in the soul of the man who ordered such an act. Destruction which results from active fighting—from mines and shell-fire—is a part of war, but such a sight as we saw—a whole city destroyed by systematic barbarism—was almost beyond comprehension. The men who inspired the utter demolition of the industries of Belgium and Northern France are the same men with whom we are soon to do business.

One of the rooms at the Bayer factory was found to be elaborately decorated with pictures showing the preparation of poison-gases, the filling of gas-shells, and the manufacture of gas-masks. Pride in the degradation of chemistry is a striking indication of German mentality.

### The Decline in Oil-seeds and Fixed Oils.

THERE has been a decidedly welcome change in the situation in regard to the replenishment of home supplies of the chief descriptions of oilseeds, and this has quickly brought about a corresponding amelioration in the conditions of the seed-oil markets. The position, both in raw materials and the by-products, was, indeed, extremely acute at the end of July, when linseed prices reached their zenith under very difficult shipping conditions. There was then an urgent demand from crushers who, in their attempt to provide for their immediate requirements, were compelled to pay quite fancy figures for linseed. Additional tightness was also caused by the frantic endeavours of Continental consumers to secure supplies. Indian linseed was almost unobtainable late in July, and offers of River Plate seed were made so sparingly that shippers there were able to insist on their own terms. Trading in the course of July came practically to a standstill under almost prohibitive conditions. The industry was undoubtedly severely affected that month, following upon the removal of Government "control" and the large extent to which oil supplies were diverted to the Continent. This naturally resulted in a virtual exhaustion of reserve stocks, and with the object of protecting the legitimate home buyer, steps were taken under official sanction to put a stop to speculation. In order to ensure this a system of licences was instituted in the various products. These efforts tended to alleviate the difficulties of manufacturers who were sorely pressed in the matter of supply. For some time, however, the seed situation was dominated by an acute shortage of freight room, and consequently seriously delayed shipments of seed from the main sources of production. In conjunction with the seed famine, oil prices were kept at quite arbitrary figures. Crude spot linseed-oil at Hull reached as high as 131s. per ton, while London crude rape oil was quoted at 115s., with refined at 121s. Soya-oil could, however, be had at 91s. A clear illustration of the great collapse that has taken place in less than two months is afforded by the fact that linseed-oil in London now stands at 83s. per ton, and in Hull at 76s. Crude rape oil is now 100s. against 112s. at the end of July, while crude cottonseed oil is now down to well below 90s. against 117s. late in July. A glance at the Board of Trade Returns shows that the accession

of supplies from India and the River Plate has assumed more regular and more adequate dimensions. Various other important factors have certainly been at work whereby the quick downward movement has been accelerated. The fact that quite large quantities of soya-bean oil, as well as the raw product, already made their appearance last month, afforded some relief as a substitute at comparatively low prices. Soya-oil is being used for many purposes, including soap-making, and this product obviously found a ready outlet when linseed-oil stood at over 100s. per ton. This would seem to be emphasised by the fact that soya-oil has held up well in value in contrast to the collapse in the much higher-priced products. Forward contracts in soya-oil have, however, been placed more cheaply, and its tendency is obviously beginning to be affected by the weak surroundings. Up to the end of July arrivals of well over 10,000 tons of soya-oil took place, and the total by the end of August swelled to 12,566 tons, this comparing with only small quantities for the same period of the two previous years. This quantity constituted practically the first arrivals for about two years, or since the cessation of the imports caused by the submarine scourge. It is understood that further large quantities of soya-beans are now afloat, and soya-oil, too, bids fair to come along in increasing quantities. In view of the vagaries liable to be experienced in linseed in poor-crop years, the growth of the soya-bean industry within the last ten years or so cannot be too highly appreciated by users of other vegetable-oil products. With the exception of a decline in cottonseed, our chief seed imports for the eight months to the end of August make a satisfactory showing compared with the corresponding period last year. The most striking feature is the big increase in linseed to 1,611,982 quarters, against 741,402 quarters and 770,493 quarters respectively in 1918 and 1917. The August returns gave the more satisfaction, both the River Plate and East India contributing liberal quantities. Moreover, it is understood that a considerable tonnage is afloat from these sources. Russian linseed is still absent, and this supply cannot be expected to be renewed for some considerable time yet. The special efforts which have been made in speeding up the despatch of the balance of the last River Plate crop have undoubtedly done much to dissipate fears of a serious shortage of supplies pending the advent of the new crop there at the end of this year. It now remains to be seen how the North American crops close at hand will turn out, but, in the meantime, crushers are not keen in anticipating their forward requirements in a sharply weakening and dislocated market. In regard to cottonseed, the much increased receipts from India came in useful pending the new Egyptian crop movement. The August receipts of rape-seed from India were also considerable, and made a total of 231,342 quarters for the eight months ending August, against 131,055 quarters for the corresponding period of 1918. The fall in seed-prices will presumably proceed still further, although fluctuations must be expected. For the present, however, crushers are extremely reserved. The collapse in linseed has been particularly pronounced, amounting to not much less than 20s. a ton from the end of July, but there has been a drop of about 45s. a ton in linseed-oil. Egyptian cottonseed in the same period has come down from 33s. 10s. to 19s. a ton, and Toria rape-seed from 48s. to 45s. During the most critical period in July, the advance in linseed-oil was forced to a proportionately greater extent than in the raw product, hence the adjustment on the down-grade in oil is the more marked. The bottom having been knocked out of the market within the last few weeks, it is only natural to expect that normal trading conditions will not be restored for some little time yet, as the decline has frightened buyers. Another important reason for this state of affairs is that there has been at one time a very considerable amount of reselling on Continental account against what would appear to have been excessive purchases at a very high price, both in seed and raw products. As a fact the slump in values and loss of exchange led to the repudiation of contracts by Continental firms. In the circumstances, there is some fear that the inevitable pronounced lack of confidence may lead to another



sharp fall until prices reach a comparatively safe level. Freight rates have come down materially and this has helped the depression, and forward buying for the moment is almost at a standstill. The outlook for the crushing industry is certainly much brighter, as the mills are now more actively employed than for the past few years. At any rate, ample supplies seem assured at much lower prices. When there is evidence of depressing resales being completed a steadier feeling should not be long in becoming manifest, as there is undoubtedly a continuous large outlet to be expected on the part of the chief manufacturing trades, which will be glad enough to accumulate stock.

### The Profiteering Act.

It is stated in the daily papers that the Profiteering Act Department of the Board of Trade is preparing further schedules of articles the prices of which local committees may investigate upon complaints from the public. The "Daily Telegraph" states that the list will include "drugs" and "toilet articles," but the "Times," which also mentions the matter, omits drugs but qualifies the "toilet articles" item with the words "which would not be described as luxuries." This is somewhat vague, and we can only surmise that such articles as tooth-brushes are referred to. In regard to the prices of drugs it is well known in the trade that there are many chemists who are so unbusinesslike as not to follow up increases in wholesale prices with corresponding rates applicable to the retail. We do not think that any chemist can justly be accused of profiteering, and we advise as the best defence the use of a retail price-list, such as that brought out by Mr. Chas. Philip, in which there is a scientific adjustment of prices.

### Patents and Designs' Bill.

THE hurried passage of this Bill through the House of Commons gave no time for considered criticism. Clause 11 of the Bill, which prevents claims for a food or medicinal substance prepared by a patented process, is of exceptional interest to the drug-trade, but it received no mention in the House of Commons. It is therefore interesting to note that in the "Journal of the Society of Chemical Industry" two contributors provide the following criticisms of the clause. Mr. Robert L. Mond writes from the manufacturers' point of view:

This paragraph provides for exceptional treatment of inventions for a certain class of materials—viz., chemical substances for use in food and medicine, and which are on the borderline between patents and trade-marks. As a matter of principle it is inadvisable that inventions should be differentially treated. Whether the power given to the Comptroller and the Court to deal with these will prove an advantage or disadvantage to the public time alone will show. In so far as this clause makes the process of production of a chemical substance and not the substance itself the subject-matter of a patent, it is a distinct improvement, and the inventor is safeguarded by the presumption of infringement by other producers who cannot demonstrate an alternative method of production.

Mr. Douglas Leechman, from the inventors' standpoint, writes:

Clause 11, which deals with chemical products and substances intended for food or medicine, deserves more attention and space than can be given to it in a general article such as this; but it may be said that this clause is less objectionable than the corresponding one in the Bill of 1917. It is still far too wide in that the first part extends to all substances produced or prepared by chemical processes, not being confined to foods and medicines, and the second part is aimed against any invention capable of being used for the preparation or production of food or medicine. Licences are still to be granted to practically anybody and at a minimum of recompense to the patentee, though the fact is expressed a little less brutally than before. When will the authorities learn that the best inventors are still human beings, and will not invent, and patent, and exploit for the fun of the thing (if any)?

The clause was given in full in THE CHEMIST AND DRUGGIST, August 2, p. 55.

## Rat Poisons.

THE suggestion that before the winter there should be a campaign throughout the country for the destruction of rats has brought us inquiries for information on various points connected with the use of poisons. As the most convenient of the agents used for destroying rats depend upon scheduled poisons for their efficacy, it is obvious that registered chemists as the experts in poisons in this country should be prepared to supply the necessary poisons with appropriate directions as to the methods of using the different poisons.

The modern developments in rat destruction are concerned with the use of bacillary preparations and gases. For ridding ships of rats considerable success has attended the use of sulphurous acid and carbon monoxide, and the problem is rather an engineering one inasmuch as the object in view is to fill all the crevices and empty spaces in a ship with a poisonous gas, and so effect the destruction of the vermin. It is comparatively easy to control this method in the case of ships, but there are obvious limitations to its use in the house. The other modern method which has a wider application is the use of bacillary preparations such as Danysz virus and the Liverpool virus, the advantage of which is that although fatal to rats they are harmless to human beings and domestic animals. We quote the following information from "The Book of the Rat," published by Evans Sons Lescher & Webb, Ltd., who are the proprietors of Liverpool virus:

For commercial purposes on a large scale the virus, or bacillus of rat virus, is grown on special media (1) on the surface of a solid jelly in the tube form; (2) in a specially prepared mixture of which potato forms the basis in the case of the baited or tin form; (3) in liquid form. The virus bacillus is one of the smallest of the microscopically visible germs; it measures only about 1/10,000th part of an inch in length and a little less than 1/25,000th part of an inch in breadth. . . . Fed to rats, according to the directions, the bacilli produce a disease of the intestine of the animal, a sort of rat typhoid, which, like typhoid of man, develops into a general blood disease, similar to what is commonly called blood poisoning, from which the rats die, and in which the blood contains enormous numbers of the virus bacillus.

As now supplied the virus requires no preparation—it is simply spread in the runs of the vermin.

### CHEMICAL POISONS.

ARSENIC is probably the oldest of the chemical poisons for destroying rats. Rat-catchers, who maintain an air of mystery in regard to the poisons they employ, almost invariably use arsenic, but a great point in the operations of the professional rat-catcher is the exercise of cunning against the well-known artfulness of the rat. It is in this direction that professional rat-catchers excel as well as in the attractions they devise to lure the rats into traps. Rat-baiting is, indeed, a very important part of the art. It is considered that certain essential oils attract the rodents, and it is as well to give samples of these compositions.

### RAT BAIT.

I.		II.	
Oil of rhodium . .	mxx.	Oil of fennel	
Oil of caraway . .	3j.	Oil of rhodium	
Oil of lavender . .	mv.		equal parts.
Oil of aniseed . .	mx.		
Tincture of musk . .	mv.		

It only requires a few drops of these preparations to make poisons "attract," and to remove the suspicion that is aroused in the rat when residual human odours are present. Sometimes a fried herring is cut up and mixed with flour with the same object or as a feed for a few nights until it is decided to spread the fatal meal before the trustful rodent.

According to the Arsenic Act, it is necessary that arsenic be mixed before sale either with soot (1 oz.) or indigo (½ oz.) to each pound of arsenic, and for the purpose of rat destruction there can be no objection to the practice unless it be that the limitation of colouring matter is

somewhat out of date. As THE CHEMIST AND DRUGGIST circulates beyond the countries where the provisions of the Arsenic Act apply, we may mention that alternative colouring matters that could be used are malachite green, chrome green, Paris green, ultramarine, and ivory black. Example of arsenical rat poisons are as follows:

#### Arsenical Rat Powders.

I.		II.	
Arsenic . . . .	4 parts	Arsenic . . . .	1 part
Cornflour or		Powdered biscuit or	
Rye meal . . . .	2 parts	Crushed linseed . .	1 part
Sugar . . . . .	1 part	Oil of anise . . . .	a trace
Tincture of asafoetida			
	a trace		
Colouring matter			
	a sufficiency		

#### Arsenical Rat Pastes.

I.		II.	
Arsenic . . . .	4 parts	Arsenic . . . .	20 parts
Lard . . . . .	38 parts	Bread crumb . . . .	50 parts
Rye meal . . . .	58 parts	Lamp black . . . .	1 part
Oil of anise . . .	a trace	Glycerin . . . . .	25 parts

These may be sold in pots or rolled into short cylinders ("pills").

#### Arsenic Butter.

Arsenic . . . .	5 parts	Potass. arsenite . .	50 parts
Butter or		Dissolve in	
Margarine . . . .	70 parts	Water (hot) . . . .	500 parts
Flour . . . . .	25 parts	add	
Anise oil . . . .	a sufficiency	Fuchsin . . . . .	a sufficiency
Colour . . . . .	a sufficiency	and sprinkle on	
		Meal . . . . .	1000 parts

#### Arsenic Meal.

STRYCHNINE is the next most popular rat poison. It is better to employ a salt of the alkaloid rather than the uncombined alkaloid; the sulphate or nitrate is best. Colouring matter should be employed, as this tends to prevent accidents to human beings, but in this case the range of colours is unlimited. Examples of this class of poison are as follows:

#### Strychnine Rat Poisons.

I.		II.	
Strychnine sulphate .	3j.	Strychnine hydro-	
Sugar of milk . . .	5iij.	chloride . . . . .	3j.
Prussian blue . . .	gr. v.	Powdered biscuit . .	3ss.
Sugar . . . . .	3ss.	Sugar . . . . .	3j.
Oat-flour . . . . .	3ss.	Powdered anise . . .	3ss.
Ultramarine . . . .	grs. xv.	Chrome green . . . .	gr. x.

These powders are packed in envelopes containing 25 grains and 60 grains, the packages selling at 6d. and 1s.

#### Strychnine Wheat.

Strychnine nitrate .	2 parts
Water . . . . .	500 parts
Dissolve and colour with	
Methyl violet a sufficiency	
and add to	
Wheat . . . . .	1000 parts
Let stand six hours and dry	
at 30° C.	

#### Nux Vomica Paste.

Powdered	
nux vomica . . . .	2 parts
Bread crumb . . . .	6 parts
Flour . . . . .	36 parts
Treacle . . . . .	6 parts
Oil of anise . . . .	a trace

Some people advocate the addition of saccharin to strychnine preparations so as to cover the bitter taste which it is thought deters vermin from obtaining a large dose of the poison. Soluble saccharin should be used.

**BARIUM POISONS.**—There is a demand for a rat poison which does not contain a scheduled poison, and it is very well met by the sale of preparations containing soluble barium salts:

#### Barium Rat Powder.

Barium carbonate	
Meal of each equal parts	
Oil of anise	
Oil of rhodium of each a	
sufficiency	
Some makes contain	
powdered cheese, bread	
crumb is preferred by	
other manufacturers.	

#### Barium Rat Meal.

Barium nitrate . .	60 parts
Water . . . . .	350 parts
Dissolve and add to	
Wheat-flour . . . .	1000 parts
Stand 24 hours and add	
Eosin . . . . .	20 parts
Sodium carbonate .	65 parts
Water . . . . .	200 parts
Allow to stand for a few	
hours, sprinkle in a few	
drops of oil of rhodium,	
and dry in the air.	

#### Compound Rat Poisons.

##### I. Powder.

Strychnine . . . .	1 part
Arsenic . . . . .	5 parts
Barium carbonate .	10 parts
Prussian blue a sufficiency	
Flour to make	100 parts

##### II. Paste.

Strychnine . . . .	10 parts
Barium carbonate .	30 parts
Bran . . . . .	50 parts
Prussian blue . . .	1 part
Margarine to make a stiff	
paste	

PHOSPHORUS is a non-scheduled poison in Great Britain, but in Ireland it is a poison in Part II. of the Schedule. Examples of its use in rat poisoning are as follows:

#### Phosphorus Paste.

I.		II.	
Phosphorus . . . .	5j.	Phosphorus . . . .	3j.
Beef-dripping . . .	3v.	Pure carbon	
Wheat-flour . . . .	3ij.	bisulphide . . . .	3ss.
Sugar . . . . .	3j.	Beef-dripping . . .	3v.
Powdered biscuit . .	3j.	Biscuit powder . . .	3iij.
Water . . . . .	a sufficiency	Comp. tragacanth	

Melt the dripping and put it into a wide-mouth bottle placed in a pan of hot water. Drop in the phosphorus (cut small), cork, and shake the bottle until the phosphorus is dissolved (dipping into the hot water occasionally). Place the powders in a warm mortar and pour the phosphorised dripping upon them, mix, and add warm water to make a soft paste.

Heat the dripping until it is quite clear, and transfer to a hot mortar; pour into this the carbon bisulphide in which the phosphorus has been dissolved; stir, then add the two powders and the oils, and finally the boiling water all at once, kneading the mass thoroughly until a perfect mixture is obtained.

III.	
Gelatin . . . . .	25 parts
Soak in	
Water . . . . .	500 parts
and add	
Glycerin . . . . .	100 parts
Phosphorus . . . .	20 parts
Melt, shake, and add to	
Meal . . . . .	500 parts
Colour with	
Ivory black . . . .	a sufficiency

IV.	
Phosphorus . . . .	20 parts
Borax . . . . .	40 parts
Meal . . . . .	350 parts
Tallow . . . . .	80 parts
Ivory black . . . .	10 parts
Water . . . . .	500 parts
M. s. a.	

TARTAR EMETIC is a constituent of some rat poisons. It is in itself a poison, but it is added also with a hope that if taken accidentally by human beings the emetic action will assist in preventing fatal results.

#### VEGETABLE RAT POISONS.

##### Spanish Rat Poison.

Pulv. cantharidis .	3j.
Pulv. sacch.	
impur. . . . .	3j.
Pulv. moschi . . .	gr. j.
Ol. rhodii . . . .	gtt. x.
Ol. carui . . . . .	gtt. x.
Pulv. byni . . . .	3x.

Rub the musk and oils with the brown sugar and cantharides, then add to the malt-flour, and mix well; finally sift.

##### Squill Poison.

Squill, sliced fine .	2 parts
Meal . . . . .	1 part
Beef-dripping sufficient to	
make a mass.	
This should have salicylic	
acid added to preserve it.	

It would be possible to "ring the changes" with mixtures of the various poisons mentioned above, but our readers will find sufficient examples have been given to show the direction in which experimental work can be carried by those chemists who desire to produce a special preparation.

THE QUAINTEST OF THE QUAIN.—The following paragraph in the "Star" of September 12 has the alluring flavour of—let us say, sublime olive oil:

"I have just come across a quaint illustration of the straits to which the war reduced us. That well-known domestic remedy, 'camphorated oil,' should be composed of 70 per cent. olive oil and 30 per cent. camphor. Few people know that during the war the manufacturers were allowed to use mineral oil, in other words, refined petroleum. I do not understand that the price of 'camphorated oil' fell in consequence of kerosene being cheaper than olive oil."

Each of these sentences tells a story, and embodies "a quaint illustration of the straits to which" non-technical scribes are reduced when they toy with technical subjects.



## Association Affairs.

**Bradford.**—The members of the Bradford Pharmacists' Association opened their new session on September 17 with a smoking-concert at the Market Tavern Hotel, under the chairmanship of the President (Mr. W. Sutcliffe). Messrs. G. Hayes, Routledge, C. Thorpe, F. Oldfield, and J. H. Batley rendered musical items. Mr. Batley and Mr. Arthur Flather accompanied, and Mr. T. R. Heaton gave elocutionary recitals. In the course of the evening Mr. D. S. Priestley (Chairman of the Pharmaceutical Committee) presented to Mr. Arthur Flather, clerk to the West Riding Insurance Committee, and late clerk to the Bradford Committee, a handsome inlaid Sheridan timepiece, and a gold wristlet watch for Mrs. Flather, as an expression of esteem from the Bradford panel chemists. Mr. Flather, in responding, referred to the future of Insurance work, and said there will shortly be great changes. He fully believed these will include extended medical service, benefit for dependants of insured persons, the augmenting of the general practitioner service by consultants and surgeons, hospital treatment as a right instead of as a charity, and dental treatment. Chemists, he said, must arrange that the public are not left without service. In Bradford the chemists have already got over that difficulty, he thought, fairly successfully, by the *rota* system. —Mr. W. Jackson, the new clerk to the Bradford Insurance Committee, was then introduced by the Chairman.

**Glasgow.**—At a meeting of employers held, under the auspices of the Glasgow and West of Scotland Chemists' Association, on September 18, a Glasgow branch of the Scottish Pharmaceutical Federation was formed, and the following office bearers appointed: *President*, Mr. D. G. Mackenzie; *Vice-President*, Mr. J. B. McVitie; *Secretary and Treasurer*, Mr. Arthur McEwan. A Committee was also elected. The meeting also discussed minimum dispensing charges, and it was unanimously decided to adhere to the prices fixed by the Trade Committee. The first meeting of the branch was held on September 26.

**Halifax.**—A meeting of the Halifax Chemists' Association was held on September 17. Mr. A. Taylor (Vice-President) in the chair. Prior to the meeting of members a meeting of the Pharmaceutical Committee was held, at which Messrs. W. R. Fielding and P. W. Swire were elected as *Chairman* and *Secretary* respectively. Circular P.S. 67 was communicated to the full meeting, and it was decided to approve the draft constitution and rules of the Federation of Pharmaceutical Associations. Messrs. Gibson Dixon and Fielding were deputed to attend a meeting of the Bradford Pharmacists' Association. With regard to unremunerative patent medicines, appreciation was expressed for the interest and support received from certain Associations. So soon as the winter meetings commence, it was hoped that replies will be received from all the Associations concerned. Comment was made on the laxity of pharmacists, as shown by the official figures of the voting in the Local Associations Executive election.

**Hampshire.**—At a meeting of the Hampshire Pharmacists' Association, held on September 17, Mr. E. H. Smith (Gosport) presiding, Mr. D. Lewis (Aldershot) was admitted to membership. The draft scheme for the Federation of Local Associations was discussed and generally approved, but it was considered that the proposed levy was insufficient to meet expenses. An additional levy, to be made on each pharmacy in the area, was suggested. It was also considered that the proposed salary for the Federation's Secretary was inadequate. Owing to the inconvenient rail service to Winchester, a large number of members have found it impossible to attend the meetings, so it has been decided to hold the annual meeting in Southampton on December 3.

**Lancaster.**—The members of the Lancaster Pharmacists' Association held a meeting on September 18, at which Mr. R. S. Angus presided. Letters were read from Sir William Glyn-Jones and Mr. Campkin acknowledging the resolutions previously passed referring to the

new by-law. It was decided to resume the annual dinner on October 29. The Mayor of Lancaster, Mr. W. Briggs (a retired pharmacist), will be present as a guest, along with other prominent gentlemen associated with pharmacy. A Committee was appointed to arrange the function. Mr. J. B. Shattock (Secretary) read a letter from the Halifax Chemists' Association urging a national boycott of unprofitable patent medicines. The Association unanimously agreed to support the suggestion. A vote of sympathy was passed with Mr. J. Vince, chemist, Cheapside, an ex-President, on his recent illness.

**London.**—A meeting of the Executive Committee of the London County Pharmaceutical Association was held on September 16, Mr. G. B. Barnard (President) in the chair. A letter from the Proprietary Articles Trade Association concerning medicine-stamp duty was formally received. A letter was also received from the Pharmaceutical Society submitting the names of the successful candidates at the election of the Local Associations Executive. A discussion took place as to the most suitable date of the annual election of the Local Associations Executive, and it was decided to recommend to the Pharmaceutical Council that the election take place not later than April. A letter from the Halifax Association regarding unprofitable patent medicines was referred to the Organisation Sub-Committee for consideration. A discussion took place on a letter received from the Early Closing Association in connection with the Shops (Early Closing) Bill and Hours of Employment (No. 2) Bill now before Parliament. The Committee decided to leave the matter to the Pharmaceutical Committee and the Local Associations Executive. The draft annual report was, after amendment, adopted for publication in the "Script." Regarding Circular P.S. 67, containing the draft scheme for the Federation of Pharmaceutical Associations, it was decided to hold a special meeting before submitting comments to the Local Associations Executive Committee. The Secretary was then requested to get in touch with the Secretaries of the other local Associations in the Metropolitan group, with a view to joint consideration of the scheme after October 7. The report of the Organisation and Trade Sub-Committee, which was adopted, contained *inter alia*:

(a) The appointment of Mr. John Kcall as Chairman of the Sub-Committee for the year.

(b) Nomination of Mr. G. A. Tocher and Mr. C. A. Noble as Joint Trade Secretaries for the county. The above nominations were approved, and a vote of thanks accorded to Mr. A. R. Keith (Chairman of the Organisation Sub-Committee) and Mr. H. Skinner (County Trade Secretary) for their services during the past year.

(c) Information on trade matters, including a draft circular and form dealing with a register of surplus stock, etc., in the county. Instructions were given for the circulation of the letter and form to members.

(d) A recommendation for three additional representatives of the Western Pharmacists' Association as members of the County Executive. This was agreed to.

The report of the Pharmaceutical Insurance Sub-Committee was formally adopted, and it was decided that the annual meeting of the Association should be held on October 30, at 17 Bloomsbury Square, London, W.C.

**London (S.E.).**—At a meeting of the Council of the South-East London Pharmacists' Association, held on September 23, the following officers were appointed for the coming session: *President*, Mr. C. Happold; *Vice-President*, Messrs. C. Siddle, W. C. Sayers, and F. W. Harris; *Treasurer*, Mr. W. Ralph; *Secretary*, Mr. J. Milner; *Financial Secretary*, Mr. W. T. Tucker. Arrangements are being made to hold a whist-drive and social in November.

**Perth.**—A meeting of the Perthshire Pharmacists' Association was held on September 18, when Mr. J. J. Forbes (President) occupied the chair. Mr. J. Rutherford Hill addressed the meeting on *Current Pharmaceutical Topics*, and reviewed matters of immediate interest to pharmacists, including the 1908 Act, the recent by-law, national insurance, federation, industrial and trade councils, recent educational changes, and the division of the Qualifying examination. A conference followed, in which practically every member took part.



**Portsmouth.**—A meeting was held on September 24, Mr. J. W. Rhodes presiding. The members agreed to support the Early Closing Bill, and the President offered to represent the Association at the forthcoming meeting in London. The draft scheme of federation was generally approved. It was considered, however, that one representative for fifty members was disproportionate, and that the limit ought to be reduced to thirty members. Further, the railway fares of delegates should be guaranteed.

**Sheffield.**—At a recent meeting of the Sheffield Pharmaceutical and Chemical Society, Mr. E. Preston in the chair, a paper on *Dispensing Charges* was read by Mr. H. B. Hammond. (An abstract will be found on p. 75.) A lively discussion followed, in which Messrs. Knowles, Bown, Culverhouse, Henderson, Jackson, and Preston took part. It was decided to form a Committee to deal with the dispensing prices suggested by Mr. Hammond's paper, comprising the President and Secretary of the Society, with Messrs. Airey, Culverhouse, Hammond, Knowles, and Swift. A vote of condolence on the death of his wife was accorded to Mr. Furnival, with whose name that of Mr. J. F. Eardley (father of Mrs. Furnival) was coupled.—A special meeting of the Sheffield Pharmaceutical Students' Association was held on September 12, the President, Mr. I. Best, in the chair. The report of a meeting between the executive of the Association and the executive of the Sheffield Pharmaceutical and Chemical Society, on affiliation, was adopted. On the recommendation of the Magazine Sub-Committee, a magazine fund was initiated, and the sum of nearly 3*l.* was promised. It was decided to increase the annual subscriptions of the Association, which will in future be paid in monthly instalments.—At the monthly meeting, held on September 15, Mr. J. E. Billington in the chair, the President (Mr. I. Best) gave a paper on *The Chemist and Student of To-day*. A discussion followed. The President then reported that the proposed University course had to be conducted, temporarily, elsewhere, owing to the large influx of ex-Service students. He asked members to refrain from registering at the Central Secondary Evening School until he had heard from Mr. Preston (President of the Sheffield Pharmaceutical and Chemical Society), who was in communication with the local education authorities.

## Business Changes.

WATTS, MARSDEN & Co., chemical merchants, have removed to 24 Minories, London, E. 1.

MR. JAMES A. CARR, chemist and druggist, late of New Washington, Durham, has acquired the business at 95 Laygate Circus, South Shields.

BOOTS, LTD., are extending their premises at 19 London Road, Brighton, by the addition of the adjoining shop, which will be suitably converted.

MR. J. T. MORGAN, B.Sc., chemist and druggist, has taken over the business of Mr. J. Carman, chemist and druggist, High Street, Holywell, Flintshire.

MR. JOHN MACINTOSH, chemist and druggist, Coombe Lane, Raynes Park, London, S.W., has removed to a corner shop near by, where he has had fitted a handsome front.

MR. EDWIN WORTH, chemist and druggist, 45 Old Christchurch Road, Bournemouth, has retired from business in favour of his son, Mr. Arthur J. Worth, chemist and druggist.

MR. A. E. MULLINGER, chemist and druggist, late of 10 The Vale, Acton, London, W. 3, has acquired the business of Mr. H. J. Sadler, chemist and druggist, High Street, Cowes.

**THE NECESSARIES OF LIFE.**—A weekly paper reports that a woman in a tramcar was heard complaining that it was impossible to live in these days—even lavender-water having risen from 1*s.* to 5*s.* a bottle. Whether it was being instanced as a beverage is not stated.

## Insurance Dispensing Methods.

CONSCIENTIOUS service should be the keynote of all dispensing, and from the beginning of the National Insurance Act we have taken the view that we were entrusted with a national duty, and we have endeavoured to carry this out in a broadminded way, not considering as is commonly done that panel work is an infernal nuisance. From the first we took as axiomatic a little paragraph from "The Art of Dispensing," "That the dispenser who economises on his drugs is a rogue; the one who economises on his corks, bottles, labels, etc., is a fool," and we determined that this should be our standard for Insurance dispensing. To that end we use the finest drugs that can be bought, the best bottles, corks, and labels. We economise time by having a series of labels printed with every possible variation of doses, etc., and it is rare that we get a script that requires a written label; moreover, this makes for accuracy, as many patients are very illiterate, and can read print where bad handwriting would fog them.

Next we get over the great "Rep. Mist." difficulty in this way: every new patient's name, address, and doctor are entered on a small card, 3½ in. by 3 in., ruled as under:

Name .....  
Address .....  
Doctor .....  
Script No. Kind. Date prepared.

The actual prescription is entered in one of Ford Shapland's Insurance dispensing script-books and given a number. The patient's name and this number are written on the label, and it is obvious that when our old friend "Rep. Mist." comes along there are at once three checks—one, the original copy of the script; next, the name and number on the label; and, finally, the name and number entered on the card. This obviates a fairly common mistake—that of a patient bringing a bottle with a number earlier than the number belonging to the last prescription dispensed. Each "Rep." is entered on the card and, of course, each new script. This also gets over the error that arises when two or more persons in the same family are getting medicine and get their bottles mixed. The numbers in the script-book are consecutive, and we allow them to run to 5,000, after which we begin again at 100, as we have a local Formulary whose numbers run to 100, and this saves any possible error on the part of the medical man. Now as to cost. A careful analysis of 896 scripts showed an average cost per script of 7*d.*—this after allowing that 50 per cent. required new corks, 36 per cent. new labels, and also allowing for the cost of the cards and the script-book. For these we received 50*l.* 8*s.* net after pricing expenses had been deducted, showing a gross profit of 26*l.* 2*s.* 8*d.* We are not sure what amount of establishment charges should be allotted, as it would appear difficult to fix a reasonable basis, as in all probability any one item in a business could be made to show a loss if taken alone.

Stock mixtures and stock solutions are largely used, and here we may say that, having regard to the great inaccuracy of dispensing-bottles at the present time, we consider that the patient is very often better off than if the dispensing is done straight into the bottle. Where stock is not available, then the mixture is made up to measure. We also find an enormous help from a set of Troy weights up to 3 oz. These save a great deal of calculation. If the script is a "Rep. Mist.," then the same bottle is used; if not, then we invariably use a new one. It is a logical probability that in the future a chain of National Health Dispensaries will be established, and it therefore behoves us to look well to our work in the past on which to base our claims for the future. *Verb. sap.!*—(23/40.)

THE ACCRINGTON EDUCATION COMMITTEE has decided to pay the travelling expenses of a student who is taking a course in pharmacy at Manchester.



## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Reports from Local Centres.

#### ENGLAND.

**Hampshire.**—A meeting of the Pharmaceutical Committee was held on September 17, Mr. E. H. Smith presiding. The Secretary, reporting on the recent election, announced that the members of the new Committee were Messrs. Baker (Cosham), Chaston (Winchester), Davies (Havant), Dodridge (Woolston), Gare (Lymington), Lewis (Aldershot), and Smith (Gosport). The following five additional members were co-opted: Messrs. Horne (Eastleigh), Howard (Fareham), Latto (Winchester), Upsom (Gosport), and Wride (Southampton). Mr. E. H. Smith (Gosport) was re-elected *Chairman*, and Mr. C. H. Baker (Cosham) *Secretary*. The delay in payment of chemists' accounts is now being overcome.

**Portsmouth.**—The annual report of the South-Eastern Pricing Bureau was presented to the Insurance Committee on September 26 by Mr. Hollis (Chairman of the Committee for Portsmouth). The South-Eastern office deals with Kent, Surrey, Sussex, Middlesex, Portsmouth and the Isle of Wight. The number of insured persons in this area is 932,580. During the year there were 2,351,112 "scripts" received, representing 2,730,997 prescriptions, and the priced value of these was 85,730*l.* 17*s.* 6*d.* Errors in pricing amounted to 1*l.* 12*s.* 11*d.*, or 0.036 per cent. Pricing was slower in the early part of the year, due to the introduction of the new dispensing-fees, changes in the prices of drugs, etc. During the year the Superintendent of the office (a lady) was lent for Government work, and this also helped to delay pricing. During the influenza period last autumn the number of prescriptions rose 41 per cent. The figures for Portsmouth alone are 52,002 insured persons; 137,667 prescriptions, value 3,899*l.* 8*s.* 1*d.*, average cost 6.79*d.*; average cost per insured person, 1*s.* 6*d.*

**Bournemouth.**—The Insurance Committee, at their meeting on September 22, decided to pay to the South-Western Joint Pricing Committee an additional 18*l.*, owing to the estimated expenditure having been increased. The Clerk was instructed to inform the Ministry of Health of the additional cost of pricing these prescriptions, and that the Committee trusted the additional amount would be credited to them, as the former cost of checking was a one-third share of 25*l.*, as compared with 56*l.* 16*s.* during 1918, and an estimated cost for 1919 of 90*l.* The amount at present credited to the Committee is 45*l.* The Committee resolved that the August and September chemists' accounts be paid as soon as the figures are received from the Pricing Bureau. The accounts paid since the last meeting amounted to 330*l.* 6*s.* 10*d.* In regard to supplying invalids with spirits, a letter was received from the Ministry of Food stating that the quantity of spirits now released from bond was sufficient to meet all reasonable requirements. The Ministry of Health wrote that they were unable to take any action in the matter. The Panel and Local Medical Committee wrote that in their opinion it was undesirable for chemists to stock spirits for dispensing on a doctor's prescription, and recommending that the Licensed Victuallers' Association be approached suggesting that all spirits retailers should keep an emergency supply, to be sold only on a doctor's prescription. The Chairman (Mr. E. Bilson) believed that if chemists were allowed to sell spirits the privilege would be abused. The Pharmaceutical Committee wrote asking the Insurance Committee to notify chemists not to dispense and charge for prescriptions written on County Insurance Committee forms or copies of the same. The Clerk was instructed to write chemists as suggested. The Pharmaceutical Committee for 1919-20 is as follows: Messrs. E. E. Bilson, W. A. Bingham, F. B. Goddard, F. Greasley, T. Hirst, A. E. Lodder, F. J. North, and A. J. Worth. The Pharmaceutical Committee have appointed the fol-

lowing to serve on the Pharmaceutical Sub-Committee: Messrs. S. Hardwick, W. E. Curtis, and F. Rose.

**Derby.**—At a meeting of the Insurance Committee, held on September 17, Mr. C. B. Marshall presiding, the newly elected Pharmaceutical Committee was announced to consist of the following: Messrs. S. Taylor (Chairman), C. Daykin Turner, H. G. Pattinson, H. G. Toy, W. Elmitt, J. Clayton Smith, J. T. Clarke, and Mr. C. Weston (co-opted member). Notice was given of a motion, for the next meeting, that the war bonus granted to all medical practitioners at a flat rate of 15 per cent. of their insurance fees (for treatment only) for 1919 should also be extended to approved institutions.

**London.**—A meeting of the Insurance Committee was held on September 25 to consider among other business the reports of the various sub-committees. The following is taken from the agenda. The Finance Sub-Committee submitted a statement of accounts for payment totalling 132,354*l.* 4*s.* 6*d.* Included were payments to chemists for the medical year, 1918, of 24*l.* 18*s.* 11*d.*; 1919, 17,898*l.* 3*s.* 10*d.* Dispensaries under the Sanatorium Benefit Fund cost 1,768*l.* 10*s.* The General Purposes Committee reported that the Pharmaceutical Committee have appointed Messrs. G. B. Barnard, J. Keall and A. R. Melhuish as representatives on the Pharmaceutical Service Sub-Committee. The Prescription Pricing Section has been reappointed for the year 1919-1920. The Medical Benefit Sub-Committee announce that 751 names were on the panels of persons supplying drugs and appliances on August 31. This number included 690 chemists in general business, 37 in institutions, and 24 other persons. Eight names were added to the list during July and August, and seven removed. A communication has been received from the Ministry of Health stating that it has been decided to pay a war bonus for the year 1919 to doctors on the following basis: (a) 30 per cent. of the practitioners' insurance capitation fees for treatment (up to a maximum of 150*l.*) in the case of every practitioner who shows that his total net professional income from all sources does not exceed 500*l.* a year. (b) 20 per cent. (up to a maximum of 300*l.*) where the income exceeds 500*l.*, but does not exceed 1,200*l.* (c) 15 per cent. (up to a maximum of 300*l.*) in all other cases. The Section on the Closing Hours of Chemists' Shops has been re-appointed. The Medical Benefit Sub-Committee has recommended, with the approval of the Pharmaceutical Committee, that two doctors in Hammersmith be authorised to supply drugs to their patients for a period of twelve months.

**Surrey.**—A meeting of the Insurance Committee was held on September 24, at which they received the reports of the various Sub-Committees. The following is taken from the agenda: The Medical Service Sub-Committee reported on two complaints against practitioners. The Pharmaceutical Service Sub-Committee reported a complaint against a chemist, alleging that a crêpe bandage, of very poor quality, had been supplied, which the chemist admitted, but which, he said, had been purchased from what he considered was a reputable firm. The Sub-Committee recommended the Insurance Committee to pass a resolution that the chemist had committed a breach of his agreement with the Committee in supplying a bandage of inferior quality, and that in future the Committee will take a serious view of such cases. They also recommended that representations be made to the Ministry of Health as to the desirability of stating, more specifically, the standard of quality of bandages required to be supplied by chemists. The Pharmaceutical Committee nominated for 1919-20 is as follows: Messrs. Bond, Bowden, Burland, Chesworth, Dixon, Doe, Mather, Morrell, Neathercoat, Noble, Pratt, and Tims. A communication from the Ministry of Health referring to war bonus for doctors was received. In the statement of accounts, Medical Benefit Fund Section, the following advances and balances to chemists appear: July 30, 860*l.* 16*s.* 5*d.*; August 20, 712*l.* 3*s.* 7*d.*; September 17, 911*l.* 0*s.* 10*d.* The number of persons on the doctors' lists for 1918 was 170,611, and of these the doctors were dispensing for 23,029.



## Dyes Licensing System.

A COPY of correspondence exchanged between the Board of Trade Industries and Manufacturers' Department and the British Chemical Trades Association has been submitted to us, and as the matter is one of considerable interest to the trade we give below a summary of the principal points. It appears that in July last the Association approached Mr. W. Graham, of the Dye Commission, asking for representation on the Dyestuffs Licensing Sub-Committee, as the import merchants have been given no opportunity of putting forward their side of the case. This letter was replied to by Mr. Percy Ashley, C.B., of the Board of Trade, on August 8, to the effect that constitution of the Committee was settled after careful consideration, when the Government scheme for affording State assistance to the dye industry, outlined in White Paper Cd. 9194, was prepared, and that it was impossible to add to the membership of the Committee. This was replied to on August 9 by the Association, who submitted that the makers represented on the Licensing Sub-Committee are not in a position to deal with the entire dyestuff requirements of this country, and that the consuming interests represented, though presumably the largest individual consumers, do not represent the bulk of the consuming trade. Reconsideration of the decision was asked for by the Association. Subsequently an interview was accorded by Mr. Percy Ashley, C.B., to Mr. Bromfield, the Assistant Secretary of the Association, on August 14, the following being a summary of Mr. Ashley's statements:

1. That no definite policy has yet been formulated by the Government as to the disposal of the German dyes which it is understood are being taken by this country on account of the indemnity, but that if any firm is appointed as sole distributing agents on behalf of the Government such firm will not be allowed to sell to one firm and refuse supplies to another at their discretion. That the Government will take the opinion of various bodies before making any decision, and that this Association is invited to offer its assistance in the matter.
2. That as regards our application for representation on the Licensing Sub-Committee, manufacturers and consumers are already represented, but merchants are not; you consider the present Committee well balanced and adequate, but you invite this Association to submit a definite statement as to the points in the present scheme upon which we disagree, giving our reasons, together with any suggestions we wish to make, and also a statement as to why we consider merchants' interests should be represented on the Committee. Further, that any representations we may make would be submitted to the President of the Board of Trade, and would be carefully considered.
3. That you expressly point out that the Board of Trade does not decline to recognise this Association, but, on the contrary, this Association is recognised by the Government as representative of the merchanting interests.

Dealing with the above points in a letter on August 22, the Association state:

They are glad to note that if a trading firm is appointed as sole distributing agents for the German dyes referred to, they will not be allowed to supply to one concern and refuse another at their discretion. We should like to be assured also that the Government will not instruct any such firm to deal with the dyes in question on anything but an open-market basis. The policy of this Association, from its inception, has been to foster and protect the trade and interests of the British manufacturer and the British consumer. At the same time, we oppose the principle of granting special concessions to any particular manufacturer or consumer or any particular group of manufacturers or consumers. It is generally assumed to be of the highest importance, particularly at the present juncture, that the export trade should be fostered. Dyes are exported and re-exported partly in their original (or reduced) form, and partly as an item in the finished product of dyed or printed goods, etc. It is estimated that between 50 per cent. and 60 per cent. of the dyes imported into this country prior to the war were re-exported in the form of finished goods. The question of re-exportation of dyes in the original form has also to be considered. It is submitted that if a proportion of the German dyes which are allocated to this country

can be sold for re-export at attractive prices, this re-exportation should be allowed, with a view to retaining the British merchants' connection abroad in the meantime, and eventually supplying such connections with British dyes which it is hoped will be on the market and available for export by the time the stocks of German dyes are exhausted. . . . It is therefore submitted that the German dyes in question should be sold on an absolutely open market—that is to say, that the firms who are willing to pay the best prices should receive the goods, whether such firms are consumers, merchants, or exporters. That the dyes should be put on the market in comparatively small lots in order to give the small consumer an equal chance with the large and financially powerful organisations to secure supplies. We deprecate anything in the nature of favouritism or opportunity to "corner." That the distribution should not be effected by any particular or individual firm, whether camouflaged by an official title or not. There is strong opposition to the so-called "Central Importing Agency" already established. The information which must necessarily accrue to any individual concern acting in such a capacity may be applied at a later date, or indirectly for individual advantage. The Association has received various protests on this point, and quite apart from the merchants' point of view, it is submitted that the present system is frequently exceedingly unsatisfactory to the consumer. Many consumers are averse to letting the "Central Importing Agency" know exactly what dyes they are using, because naturally every manufacturer has some particular method of working, which he will not under any circumstances risk getting into the hands of possible competitors. It would be preferable for the distribution of German dyes to be undertaken either by a Government Department, with expert whole-time assistants on the trade and technical sides, or if this suggestion is unacceptable on the ground of expense or reluctance to increase the scope of official action, it is suggested that this Association, representing merchants generally, and not any individual, should undertake the distribution for the Government, possibly somewhat on the lines of the United Kingdom Oil and Oil-Seed Brokers' Association. Further, if this suggestion were in principle considered acceptable, I think it could be arranged for the Association to undertake the work on a basis of actual out-of-pocket expenses only, and a guarantee that such expenses should not exceed a certain specified percentage. We contend that the present Import Licensing Committee, and also the Licensing Sub-Committee, are ill-balanced and unsatisfactory for the following reasons: Manufacturing interests are not fairly represented. It is true that the Dye Manufacturers' Section of the Association of British Chemical Manufacturers is represented on the Committee, and therefore presumably had a voice in nominating the Licensing Sub-Committee, but the smaller and independent dye manufacturers are not really represented at all, and even if they are members of the Association of British Chemical Manufacturers they have, under the constitution of that Association, no real voice in its management, and are entirely controlled and outvoted by the larger subscriptions paid—e.g., by British Dyes, Ltd., and Levinsteins. The consumers' interests are not fairly represented simply by the Bradford Dyers' Association and the Calico Printers' Association, because it is submitted these two organisations, though admittedly the two largest individual consumers in the country, do not take between them 50 per cent. of the total national dye consumption. The merchant interests are not represented at all. The whole Committee is constituted to deal with a question of importing, and importing is the business of a merchant, not of a consumer. The consumer, generally speaking, wants stuff delivered on his doorstep in comparatively small quantities, and usually looks his capital up in manufacturing interests and bank debts, and only wants to pay for supplies of raw material on or after delivery. The function of the merchant is to buy in quantity and finance in the country of origin of the imported merchandise, to arrange rapid and economical transport, and to distribute the goods on arrival in smaller quantities to suit the consumer. Prior to the war at least 95 per cent. of the imports of dyes were made by merchants or agents. It is recognised by the Board of Trade, and admitted in their White Paper No. Cd. 9194, that certain dyes which are required in this country are not manufactured here. Whilst recognising the importance of fostering home production, it is submitted that it is nationally and financially unsound to prevent the importation of raw material which is either unavailable here or which cannot be produced to compete within a reasonable margin with the price at which the product of an allied nation can be delivered here without any principle of dumping being involved. It is suggested that it is in principle unfair to govern the business of the importing



merchant, who is at least equally involved with the consumer, through a Committee composed exclusively of representatives of firms whose interests lie (as far as manufacturers are concerned) in preventing imports as far as possible, or (as far as consumers are concerned) in hindering imports by outside and competitive concerns. It is submitted that such Licensing Committee should be as widely representative as possible, and that all parties should be given an opportunity of submitting their point of view.

This letter was acknowledged by Mr. A. W. Flux, of the Board of Trade, intimating that the representations made will be borne in mind when arrangements are made for distributing any dyes obtained from Germany under the Peace Treaty. The Board of Trade, however, refused to increase the representation on the Licensing Sub-Committee of the Trade and Licensing Committee.

## Yohimbi Bark.

THE importation of this bark into England from West Africa is interesting from several points of view. Prior to the war it was exported from the Cameroons to Germany, and the active principle was patented in Berlin under the name of yohimbine by Dr. Leopold Siegel (No. 11,647 of 1900), and a salt of the alkaloid was sold under the name of aphrodine. But when the European war commenced in 1914 the exportation stopped and the manufacture in Germany ceased. Nevertheless the trade mark "Yohimbine" is still on the British register (see *C. & D.*, May 22, 1915, p. 83). But it was found that another plant yielding this alkaloid occurred in the French Congo, and the manufacture of the alkaloid was taken up in France, and the demand for it appears to be large. It is said to be used by people who cannot get cocaine, but, whether that be true or not, it is certainly used in veterinary practice to promote breeding of valuable strains of animals and to improve the fecundity of fowls. In this country yohimbi bark has been imported into Liverpool, it is asserted, direct from Togoland, but, as there is no published "Flora" of Togoland and no direct evidence that the yohimbi tree grows there, although that country is in the same latitude as the Cameroons, either it is carried from the Cameroons to Togoland or the bark from Togoland may or may not be identical with that of the Cameroons.

The botanical source of yohimbi bark also possesses some practical interest. The original yohimbi bark was referred to *Corynanthe Yohimbi* by Dr. K. Schumann, but it is now known that at least two other plants yield the yohimbi bark of commerce, and these are referred by the latest botanical writer on the subject to the genus *Pausinystalia* under the names of *P. Yohimbi*, *P. macroceras*, and *P. Trillesii*. *P. Yohimbi* occurs with *P. macroceras* in the Cameroons, especially around Bipindi, and *P. macroceras* occurs also, together with *P. Trillesii* and *P. Yohimbi*, near Libreville, in the French Congo. Either of these three barks may therefore enter English or French commerce, and, as they differ in the relative proportions of the alkaloids they contain, *P. Yohimbi* containing chiefly the active alkaloid yohimbine, and *P. macroceras* chiefly the inactive alkaloid yohimbenine, while the relative proportions in *P. Trillesii* do not appear to have been published, it becomes of importance to be able to distinguish the barks of the different species by their physical and microscopical characters, and to be able to recognise the different species when growing.

Whether the other known species of the genera *Pausinystalia* and *Corynanthe* may also yield yohimbine is an open question, and their barks at all events may be worthy of chemical investigation.

The known species of *Pausinystalia* at present include *P. Yohimbi*, *P. macroceras*, and *P. Trillesii* from the Cameroons and French Congo; *P. Angolensis* from Golungo Alto, in Angola; and *P. Talboti*\* from Oban, in Nigeria.

The known species of *Corynanthe* include *brachythyrus*, *C. pachyceras*,† from the Cameroons and Nigeria; *C. paniculata* from Angola, where it forms woods in

Alto Queta; and *C. Gabonensis*, near N'Kogo on the Ogoou River, in the Gaboon.

The distinction between the two genera depends chiefly on the character of the flowers and fruit, all of them having leathery leaves, more or less oval and pointed.

In *Pausinystalia* the corolla is more or less wheel-shaped or bell-shaped, with included stamens and styles, and the dehiscence of the fruit is septicidal. In *Corynanthe* the corolla is funnel-shaped, with a slender tube as long as the lobes, and the stamens and style project beyond the corolla, and the dehiscence of the fruit is loculicidal, so that the plants are identified more easily when in flower.

With respect to the barks as imported, the genuine bark of *P. Yohimbi* occurs in rather thin, hard pieces, slightly curved, about 2-3 mm. thick, and fibrous; that of *P. macroceras* is usually about 1 cm. thick, and is softer and more loosely fibrous. The taste of *P. Yohimbi* bark is somewhat mucilaginous and bitter; that of *P. macroceras* is less bitter.

The yohimbi bark has recently been "shipped to this country from Togoland" direct to Liverpool, and several consignments have been offered. On June 5 last 173 bags, lying at Liverpool, sold without reserve at the London auction at 7½d. to 7¾d. per lb., and another lot of 248 bags was sold by auction in Liverpool on Thursday, July 15, also at a low price. In both cases the importation appears to have consisted of the thick, loosely fibrous bark of *P. macroceras*. The bark of *P. Trillesii* does not appear to have been offered on the English market, having probably a rich content of yohimbine, and therefore retained in France. If the bark of *P. Yohimbi* has been imported into this country it has probably passed direct to private hands and not been put up to auction.

With respect to the chemical point of view, there is also a good deal to be done. The German patent states that yohimbine is extracted from the powdered bark by acetic acid and precipitated from the solution by carbonate of soda and subsequent crystallisation from alcohol. But in practice the separation of the pure yohimbine from the inactive yohimbenine, and the process of freeing the crude alkaloids from the persistent yellowish colouring matter is very troublesome to carry out, rendering the chemical analysis expensive. Statements have recently been made that yohimbine is identical with corynanthine, an alkaloid obtained from a plant belonging to the new but allied genus *Pseuda-cinchona Africana*, and it appears possible that this bark has been sent over to England, since some of the yohimbi bark in commerce has been confused with cinchona bark. It has also been stated that yohimbine is isomeric with quebrachine ("Bull. Soc. Pharmacolog.," 1914, 21, p. 7). It is therefore clear that there is a necessity for further chemical investigation of the alkaloid yohimbine and for the determination of its average percentage in the various yohimbi barks that enter commerce. There is also a possibility that yohimbine may be built up from yohimbenine, in the same way as cocaine from ecgonine. (See Henry on Alkaloids, *sub* Yohimbine.)

With respect to the possibility of identifying the different barks by microscopical examination, some literature has been published, sufficiently to identify *P. Yohimbi* and *P. Trillesii*, but not to distinguish the other species. All of them have a general resemblance in physical characters and the character of the tissues, the differences being chiefly in their arrangement and relative proportions.

\* Catalogue Talbot's "Niger Flora," p. 40, Nat. Hist. Mus., South Kensington.

† Notizblatt Bot. Gard., Berlin, III. 94 (1901).

## Gazette.

### Partnerships Dissolved.

AMOS, S. E., and ASHWORTH, W. N., Weybridge, Surrey, chemists, under the style of "Kennett."  
CORNELL, A., and MATTHEWMAN, L. H., 37 Huntley Street, London, W.C., manufacturers of toilet articles, under the style of The Parisa Perfumery Co.  
SCHOLFIELD, T., and TODD, J. H., Lee Mill, Shawclough, Rochdale, chemical manufacturers, drysalters, and tallow refiners, under the style of Sieber & Co.



## Trade Report.

42 Cannon Street, E.C. 4, Sept. 25.

THE week under review has again been quiet in the Mincing Lane drug market, and the same applies to pharmaceutical chemicals, in which department price "cutting" continues severe. A goodly number of fluctuations are reported, but few of particular import. Japanese refined camphor has been dealt in at higher rates, and a substantial advance has occurred in Japanese oil of mint, which is likely to rise still further. Senega is firmer. Florentine orris, areca, Belgian chamomiles, liquorice-juce, fenugreek, dill, and canary seeds are cheaper. Persian and Chinese galls are dearer; opium is in more demand, with prices in Turkey moving upwards. French lavender, spike, and rosemary are dearer at primary sources. Lemon and star anise oils have an easy undertone. The changes in fine chemicals are mostly downwards, and include phenacetin, creosote carbonate, guaiacol carbonate and liquid, methyl sulphonal, potash permanganate and potash sulphoguaiacolate, coumarin, vanillin, and sulphonal. The control has not yet been removed from quinine, and trade is almost at a standstill, the Government's inaction being a serious cause of complaint. Cream of tartar is firmer; tartaric acid for forward delivery is offered cheaply. Paraldehyde and tannic acid have been slightly advanced.

Higher	Firmer	Easier	Lower
Anise	Camphor	Acetanilide	Areca
Apricot kernels	(Jp. ref.)	Anise oil,	Canary-seed
Calc. glycerophosph.	Cloves	star	Chamomiles
Cassia fistula	Cream of	Benzoic acid	Creosote carb.
Galls	tartar	Coumarin	Farina (Jp.)
Mint oil (Jp.)	Ipecacuanha	Damiana	Fenugreek-
Paraldehyde	(Cartagena)	leaves	seed
Rosemary oil	Senega	Dill-seed	Gamboge
Saffron	Tannic acid	Hen-yolk	Glucose
Senna (Tinn.)		Orange-peel	Guaiacol carb.
Spike-lavender oil		Orris (Flor.)	Guaiacol liq.
		Pepper	Honey
		Potash	Kola (W. Af.)
		permang.	Linseed
		Sulphonal	Linseed oil
		Vanillin	Liquorice-
			juice
			Methyl
			sulphonal
			Phenacetin
			Pot. sulphoguaiacolate
			Shellac
			Tartaric acid (forward)

### Cablegram.

NEW YORK, September 24.—Business is active. Opium has declined to \$8.25 per lb. Menthol is dearer at \$8.75 per lb., and peppermint oil in tins has advanced to \$7.50. Acetanilide is dearer at 45c., and serpenty-root to 75c. per lb.

ACETANILIDE has been slightly reduced, spot offering at 2s. 6d. per lb. for powder or crystals.

ALBUMEN.—Chinese egg is steady, with spot sales at 5s. per lb., afloat at 4s. 10½d., and sellers of October-December shipment at 5s. c.i.f.

ANISE OIL, STAB, is quiet, the spot value of "Red Ship" being 5s. 1½d. per lb.

ANTIMONY continues very firm, due to a well-sustained trade demand, while considerable quantities appear to have been despatched abroad of late, and it is believed that the Government stocks are being eaten into steadily, while imports are quite negligible both in refined and crude. Germany seems anxious to get supplies. Chinese crude is extremely scarce and nominal at about 32l. Japanese exports for the first five months of this year were only 337 tons, or not even one-half what they were last year in the same period, while these figures compare with 7,557 tons in 1917. China has remained out of the market, and there is but little crude available there according to mail advices.

ARECA.—Good sound now being in larger supply are offered at the cheaper rate of 90s. per cwt.

ARSENIC.—While the undertone seems firm the tendency of prices shows some irregularity on account of occasional cheap offers of imported material. The price of Cornish has ruled at around 58l. per ton, but there is just a possi-

bility that outside competition on freer imports may eventually ease prices. Views, however, are conflicting as to the future of the market.

BALSAM PERU is firm at 16s. 9d. per lb. on the spot.

BALSAM TOLU is offered at from 7s. to 7s. 3d. per lb. on the spot.

BENZOIC ACID ex toluol is easier, spot offering at 5s. per lb.

BROMIDES.—Potash crystals continue very scarce on spot at from 4s. to 4s. 3d. per lb.; ammon. is 2s. 11d. to 3s. 2d., and sodium is 2s. 7d. to 2s. 8d. per lb.

CALCIUM GLYCEROPHOSPH. is dearer at from 12s. to 12s. 6d. per lb. on spot.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are firmer, with spot sales at 14s. 6d. to 14s. 9d., and for afloat 14s. 4½d. c.i.f. has been paid. The exports from Japan during June amounted to 203,689 kin, valued at 605,825 yen. During the six months ended June 30 they were as follows:

To	1917 Kin	1918 Kin	1919 Kin
British India ...	412,447	277,511	25,303
Great Britain ...	46,583	292,443	50,123
France ...	15,165	23,965	48,813
United States ...	1,156,838	383,073	920,447
Australia ...	17,392	62,907	1,633
Other Countries ...	76,801	118,634	44,665
Kin ...	1,725,226	1,158,533	1,090,984
Yen ...	2,889,756	2,306,704	3,012,571

CANARY-SEED is again lower at 145s. to 155s. per quarter for common to good Morocco.

CASCARA SAGRADA.—Privately spot values of one to two year old are from 110s. to 112s. 6d., and two-year-old 115s. per cwt.

CHAMOMILES.—New crop Belgian is expected to arrive in a week or so, and prices have been tending downwards, fair white offering at 185s. per cwt.

CITRIC ACID is steady at 4s. 4d. per lb. on spot.

CLOVES are firmer, with spot sales of fair Zanzibar at 1s. 10d. to 1s. 11d. per lb.

COD-LIVER OIL.—Our Bergen correspondent writes on September 15 that there is a brisk demand from all parts of the world, and the tendency of the market is very firm. There are buyers at the parity of 465s. per barrel f.o.b. Bergen for finest non-congealing oil, but no sellers. The total exports from Norway up to the end of August amounted to 17,500 barrels.

COPPER SULPHATE is still very dull, and orders can doubtless be placed at 40l. per ton f.o.b. Liverpool, although some makers quote more, this being for casks, less 5 per cent.

CORIANDER-SEED is quiet and nominally unchanged at 24s. per cwt. for good Morocco.

COUMARIN is easier, spot offering at 47s. 6d. per lb.

CREAM OF TARTAR remains firm and comparatively scarce at 255s. per cwt. for 99 to 100 per cent. powder.

CREOSOTE CARBONATE is cheaper, offering on spot at from 30s. to 31s. per lb., as to quantity. Creosote ex beechwood is 8s. to 9s. 6d., as to quantity.

CUMIN-SEED is steady at 45s. to 50s. per cwt. for ordinary to good sifted Morocco and at 55s. to 57s. 6d. for Malta.

DAMIANA-LEAVES are easier, with parcels afloat offered at 1s. 2d. per lb., and slightly more for actual spot delivery.

DILL-SEED is easier at 20s. per cwt. for ordinary East India.

EUCALYPTUS OIL is selling more freely in view of the autumn demand, the value of 70 to 75 per cent. oil being from 2s. 6d. to 2s. 7½d. per lb. on the spot.

FARINA is about 4s. lower, No. 1 Japonico offering at 41s. per cwt. on the spot and September-November shipment at 38s. c.i.f. Sweet is also cheaper at 34s. spot and 32s. c.i.f. for August-October shipment.

FENNEL-SEED is unchanged at 36s. to 38s. 6d. per cwt. for ordinary to good East India.

FENUGREEK-SEED is lower at 15s. to 15s. 6d. per cwt. for Morocco on the spot according to quantity, and at 14s. c.i.f. terms for shipment.

GALLS.—Persian are firmer in sympathy with the rise in Chinese, and good blue are worth from 130s. to 132s. 6d. per cwt. on the spot, and likely to be still dearer. Plum-shaped Chinese on the spot are quoted at 170s. and ordinary at 165s.

GLUCOSE is rather cheaper, American water-white offering at 60s. per cwt. duty paid, landed terms.

GUAIACOL CARBONATE is cheaper, importers offering at 29s. to 30s. Guaiacol liquid has also been reduced to 34s. to 35s.

GUM ACACIA remains firm, with the usual half-hard Sudan sorts offering at 72s. 6d. and cleaned at 75s. to 77s. 6d. Arrivals comprise 12,909 bags from Port Sudan.

HEN-YOLK is quiet and easier, Chinese 2-per-cent. boric acid offering at 165s. per cwt. on the spot, afloat at 160s., and July-September shipment at 150s. c.i.f., at which busi-



ness has been done. Dried yolk on the spot is 1s. 11d. per lb. and afloat 1s. 7d. c.i.f. has been paid.

HYDRASTIS is selling at from 30s. to 32s. 6d. per lb. on the spot.

LAVENDER OIL.—French continues to advance, with new crop offering at 57s. per lb., and still higher prices predicted.

LINSEED is lower at 50s. per cwt. for fair quality on the spot.

LIQURICE-JUICE in view of the larger arrivals has been casing in value for some time past, and with keen competition finest block can be obtained at 215s. per cwt., and less for quantity.

MANGANESE PEROXIDE.—Germany is undoubtedly in need of supplies, although certain quantities have been despatched recently *via* Holland. Germany's annual requirements of this material are roughly estimated at 2,000 tons, or practically double the tonnage wanted in this country. There are notable unsold supplies waiting for disposal in home ports, but demand is slow, although one or two parcels were some time back diverted to America. The position of manganese in India has been affected by the sharp rise in silver or the much enhanced value of the rupee, while the c.i.f. quotation for prompt shipment to home ports has in recent weeks risen from about 2s. 2d. to 2s. 6d. per unit, based on a 65s. per ton freight from Bombay.

MENTHOL is quiet, with spot sellers of Kobayashi-Suzuki at 38s. per lb. The exports from Japan during June amounted to 27,766 kin, valued at 331,779 yen. During the six months ended June 30 they were as follows:

To	1917 Kin	1918 Kin	1919 Kin
British India ...	5,620	10,809	3,946
Great Britain ...	17,241	100,801	23,006
United States ...	110,096	42,621	110,373
Other countries ...	10,175	7,384	4,107
Kin ...	143,132	161,615	141,432
Yen ...	932,754	977,882	1,400,675

METHYL SULFONAL can now be had at the reduced price of 80s. on spot, and 75s. to arrive.

MINT OIL.—Japanese dementholised is dearer and in more demand owing to the rise in American oil. Spot sales of Kobayashi-Suzuki have been made in quantity at from 7s. 4½d. to 8s. per lb. Several hundred cases have been shipped to the U.S.A. recently from London. The exports from Japan during June amounted to 33,882 kin, valued at 84,961 yen. During the six months ended June 30 they were as follows:

Kin	1917	1918	1919
...	106,232	78,603	198,714
Yen	235,784	161,671	530,649

NUX VOMICA continues in fair demand, chiefly on export account. Common qualities on the spot range from 28s. to 30s., and the value of good bold Bombay is from 40s. to 42s. 6d.

OILS, FIXED.—*Linseed* is 9s. per cwt. lower on the spot at 83s. naked, ex mill. *Hull* (spot) is also lower at 76s. *Rape* is unaltered on the spot at 100s. for crude and 108s. for refined, likewise *Cottonseed* at 105s. for crude and 110s. for refined. Refined *Soya* is 110s. (maximum price); July-August shipment in cases is 86s. c.i.f. Hankow in barrels is 94s. c.i.f. for September-October shipment. Chinese *Wood* is 125s. spot and 118s. c.i.f. to arrive. *Coconut*; home refined maximum price is 110s. naked; Cochin for September-November shipment is 102s. c.i.f. *Palm* is lower, Lagos offering in Liverpool at 88s. and softs at 86s. Newfoundland *Cod* is 80s. and English 78s. Japanese *Fish* is selling at 75s. to 80s. in barrels.

OPIMUM.—The recent revival in the demand appears to be sustained, with spot sales of Turkey 11½ per cent. at from 20s. to 21s. per lb. Smyrna reports by cable an advance of 1s. 6d. per lb. on that market, with a fair business passing.

ORRIS.—With larger arrivals spot holders of Florentine have eased prices, offering good sorts at 105s. per cwt. in quantity.

PARALDEHYDE is about 6d. per lb. dearer in importers' hands, offering at from 6s. to 6s. 6d. per lb.

PEPPER is quiet and easier, with spot sales of fair black Singapore at 1s. per lb., also September-November and October-December shipment at 10½d. per lb. c.i.f. London. Fair Tellicherry has been sold at 1s. 2½d., and Aleppy is 11½d. *White* pepper is also quiet, the sales including Muntok at 1s. 5d.; to arrive Muntok for September-November and October-December shipment has sellers at 1s. 4½d. c.i.f. The spot value of Singapore is 1s. 4½d.

PEPPERMINT OIL.—The prices for American tin oil still show a rising tendency, with 40s. c.i.f. quoted by cable, which with the loss on exchange is about equal to 51s.

on the spot. There are, however, spot sellers in a small way at from 40s. to 41s. net. H.G.H. is 50s. London terms.

PHENACETIN meets with keen competition, and the cheaper rates of from 17s. 4d. to 18s. 6d. per lb. are quoted, as to quantity.

POTASH PERMANGANATE crystals offer at the easier rate of 3s. per lb. in cases and up to 3s. 6d. in small lots.

POTASH SULPHOGUAIACOLATE is offered at the substantially lower rate of 27s. 6d. per lb. on the spot.

QUICKSILVER.—The position looks like continuing firm here, inasmuch as it is reported that a large quantity of Italian quicksilver was recently despatched direct to America. This would appear to explain to some extent the recent sharp setback in the New York quotation to \$95 per flask in the absence of or on delayed deliveries from the Pacific Coast. The position is interesting in view of the much increased world's consumption and the concentration of marketing into fewer hands. The resumption of good imports by America is a point worth noting.

QUILLAIN.—Cut is inquired for on expert account, but the orders in hand will take several weeks to work off, and prompt delivery cannot be obtained. Whole bark is worth about 70s. on the spot.

QUININE.—Market conditions in regard to quinine sulphate remain unsettled, but all other salts can be sold unconditionally. The policy of the Government appears to be very vague and nebulous, because the British Quinine Corporation was informed three weeks ago that exports were about to be free and "control" removed. This has not yet been proved to be the case, trade being held up in consequence. Surely the Government realises that quinine is not an article in common use in this country, and that London is only a distributing market for the world? Dissatisfaction with the Government's delay in relinquishing control is growing in the drug-trade. Second-hand New York prices are \$1.25 per oz. (*i.e.*, more than 6s.), and London quotations (though sales are not taking place) are less than two-thirds of this figure. Nevertheless, bad exchange notwithstanding, and increased exports being called for, applications for licences to export to America meet with refusals.

ROSEMARY OIL.—Spanish is dearer at 3s. 3d. per lb.

SALICYLATES are unchanged, B.P. salicylic powder offering at from 2s. 5d. to 2s. 6d. per lb., and sodium salicylate, B.P. powder, at 3s. 6d. to 3s. 8d., B.P. crystals being 4s. to 4s. 3d.

SAFFRON.—With Spain asking higher prices, holders on the spot now want 59s. 6d. to 60s. per lb. net for finest Valencia.

SENEGAL.—Although there is reported to be a fair quantity on the way there is no easing in prices—in fact, the tendency is firmer. Recent business has been done at 8s. 3d. to 8s. 6d. per lb., with 8s. 6d. to 8s. 9d. asked on the spot.

SHELLAC has been quiet and prices are lower, the spot value of the usual standard TN Orange quality being 480s. to 485s. per cwt.; fine Orange is 495s. to 500s., cakey to blocky AC Garnet 395s. Futures are lower, with sales of October at 465s. to 470s. and December at 440s. to 445s.

SOY is quiet, the high prices having restricted consumption; sales of good Chinese have been made at 5s. per gal. net in barrels.

SPIKE-LAVENDER OIL.—French is dearer at 4s. 6d. per lb.

SULFONAL is easier, with spot sellers at 75s. per lb., and to arrive at 70s. c.i.f.

TANNIC ACID is firmer, *levis* offering at from 9s. to 9s. 6d. per lb.

TARTARIC ACID remains firm at from 3s. 3d. to 3s. 3½d. per lb. on spot. For January-March, 1920, delivery the lower rate of 3s. per lb. is quoted in several quarters.

TURPENTINE shows little change on the week, but a good business has been done, American closing at 129s. per cwt. on the spot.

VANILLIN is quiet, and with second-hand sellers anxious to make progress prices are easier at from 63s. to 60s. per lb.

### London Drug-auctions.

London Commercial Sale Rooms,

Mineing Lane, E.C. 3, September 25.

A FAIR quantity of goods offered, but the demand was poor on the whole, particularly as regards the export trade, the loss on exchange restricting business generally. Cape aloes met a small demand at steady rates. Sumatra benzoin was in fair request at slightly easier prices for good seconds. Unbleached cardamoms were freely offered, but very little sold. Siam gamboge was 3d. cheaper for good. Honey was neglected and 2s. 6d. to 5s. lower. Cartagena ipecaacuanha was rather dearer, but only a few bales of Matto Grosso sold. African kola was 1d. easier. Myrrh sold at fully previous rates. Orange-peel was forced off without reserve at a slight reduction. Rhubarb is held for previous prices. Sarsaparilla was neglected. Tinnevely senna-leaf was ¼d. dearer, pods being unchanged. Beeswax quite neglected.



	Offered	Sold		Offered	Sold
Ajowan-seed ...	21	0	Cuban...	105	20
Aloe—			Haitian ...	8	0
Cape ... (cs.)	99	40	Honolulu ...	10	0
Curacao ... (cs.)	150	0	Jamaica ...	1064	46
Socotrine ... (kegs)	10	0	New Zealand ...	92	0
Anise (Russ.) ...	27	0	St. Lucia ...	108	108
Anise, star (Ch.) ...	50	0	Hydrastis ...	1	0
Annatto-seed ...	76	0			
Araroba ...	20	0	Ipecacuanha—		
Areca ...	30	0	Cartagena ...	11	11
Argol (Cape) ...	100	0	Matto Grosso ...	38	6
Arnica-flowers ...	16	0	Minas... ..	4	0
Balsam Peru ...	6	0	Jalap (V.C.) ...	18	0
Bayberry-bark... ..	5	0	Kola ...	166	79
Bay-leaves ...	22	0	Lemongrass oil ...	20	20
Belladonna-leaves (cs.)	1	0	Lime-juice ... (pns.)	11	0
Benzoim—			Lime oil ...	1	0
Siam ...	35	0	Liquorice-juice (cs.)	157	0
Sumatra ...	288	22	Liquorice-root ...	553	50
Blackhaw-bark ...	12	0	Musk-seed ...	5	0
Calabar-beans ...	6	6	Myrrh ...	101	0
Calumba ...	288	0	Nux vomica ...	185	0
Campher ...	2	0	Olibanum ...	154	12
Canab. ind. ...	70	0	Orange-peel ...	77	26
Cantharides (Ch.) ...	47	0	Orris (Mor.) ...	17	0
Cardamoms ...	656	31	Quince-seed ...	14	0
Cascara sagrada ...	86	0	Rhapontica-root ...	39	0
Cascarilla ...	4	0	Rhatany ...	20	0
Casein ...	75	0	Rhubarb (Ch.) ...	10	0
Cashew-nuts ...	75	0	Saffron ... (tins)	4	0
Cassia fistula ...	15	15	Sarsaparilla—		
Chilua-root ...	10	0	Grey Jamaica ...	25	0
Chiretta (Ind.) ...	55	0	Lima ...	51	0
Coca-leaves ...	237	0	Native Jam. ...	18	0
Cochineal ...	63	0			
Copaiba ...	5	0	Senna and pods—		
Cubebs ...	12	0	Alex. ...	111	9
Cuttlefish-bone ...	297	0	Tinnevely ...	233	150
Dragon's-blood ...	18	0	Simaruba ...	18	0
Eucalyptus oil... ..	23	*23	Slippery-elm bark ...	15	0
Eunymus-bark ...	22	0	Squill ...	25	0
Euphorbia pil. ...	15	0	Strophanthus ...	24	0
Fennel-seed ...	65	0	Sulphonal ... (bxs.)	3	0
Galls ...	11	0			
Gamboge ...	10	1	Tamarinds—		
Gelsemium ...	22	0	West Indian ...	106	0
Gentian ...	60	0	Turmeric ...	474	0
Grindelia rob. ...	53	*10	Turtle, dried ...	2	2
Guaicum ...	1	0	Uva ursi ...	6	0
Guarana ...	10	0	Valerian (f.e.g.) ...	5	0
Gum acacia ...	23	0			
Gum acroides ...	6	0	Wax (bees')—		
Gum karaya ...	134	0	Abyssinian ...	121	0
Henbane (Egy.) ...	16	0	East African ...	764	0
Herbs (pkgs.) ...	16	0	East Indian ...	66	*2
Honey—			Jamaica ...	29	0
Australian ...	33	70	Mozambique ...	111	30
Barbados ...	2	0	West Indian ...	4	2
Californian ...	120	0	Wax, Montan ...	10	0
			Wild-cherry bark ...	13	0
			Witch-hazel leaves ...	13	0

\* Sold privately.

**ALOES.**—Cape was steady, but in small demand. Fifteen cases good bright firsts sold at 57s., and 15 cases good seconds went at 55s. to 55s. 6d. Ten kegs Socotrine offered, and for the good hard 185s. was wanted.

**ANISE.**—A lot of 27 bags Russian, partly dusty and of little flavour, of 1917 import, offered, for which 80s. was wanted, a bid of 75s. being refused.

**ANNATTO-SEED.**—A lot of 36 bales fair bright was retired at 6½d.

**ARAROA.**—Twenty cases (Dr. Otto Hehner's analysis, chrysarobin, 56.2 per cent.) offered, for which 3s. per lb. was wanted.

**BENZOIN** was in fair demand, the chief sales being 30 cases good clean Sumatra firsts, well packed with small almonds, which realised 11½ 10s. per cwt., and country cut 10½ 10s.; four cases good seconds sold at 10½ 12s. 6d. Thirteen cases fair Sumatra seconds, partly cross-cut, sold at from 9½ per cwt. subject to 9½ 7s. 6d.

**CALABAR BEANS.**—Six bags ordinary offered and sold without reserve at 4½d. per lb.

**CALUMBA.**—Quiet; 44 bags of ordinary small to bold natural sorts, slightly wormy, offered at 70s. per cwt.

**CAMPHOR (REFINED).**—Two cases ½-oz. blocks offered, the price being 16s. per lb.

**CARDAMOMS** met a slow sale, the bulk of the offering being unbleached. Good small to medium pale Ceylon Mysore (six cases) sold at 6s. 1d. to 6s. 2d., and a few cases Ceylon Malabar, good medium brownish, went at 4s. 8d. to 4s. 9d., small greenish 2s. 4d. to 2s. 10d., medium dull 2s. 8d., brown and split 2s. 3d. Good seed was obtainable at 3s. 3d.

**CASCARA SAGRADA.**—A lot of 86 bags fair thin bark offered, for which 115s. was wanted.

**CASCARILLA.**—Two bales of fair bright quill, part twiggy, and two bales of ordinary twiggy offered, for which 2s. 4d. per lb. was wanted.

**CASSIA FISTULA** was 10s. dearer. Fifteen bags of fair sound St. Lucia pod (bags more or less gnawed by vermin) sold at 180s.

**COCA-LEAVES.**—A lot of 184 bales fair greenish, slightly broken Truxillo leaf, offered and bought in at 2s. 6d. per lb.

**COD-LIVER OIL.**—Ten barrels Aarsaether's brand offered, the limit for which was 490s. per barrel.

**GAMBOGE** is easier, a single case of good Siam pipe, slightly blocky, selling at 37½ per cwt., at which business has been done privately.

**GRINDELIA ROBUSTA.**—Fair was held at 1s. 3d. per lb.; ten bales had been sold privately.

**HONEY** met with practically no demand, and prices were 2s. 6d. to 5s. lower. A few barrels of good pale set Jamaica sold at 87s. 6d. to 90s., good amber liquid at 83s., and fermented 56s. to 77s. 6d.; Cuban, fermenting, 52s. 6d. to 57s. 6d.; and Australian (70 cases), 56s., the latter being cheap. For good pale set New Zealand 120s. was wanted. Two lots, amounting to 108 cases, St. Lucia sold at from 71s. to 76s. (ullaged at 70s.) for dark to good bright amber liquid.

**IPECACUANHA.**—Firm. About 38 bales Matto Grosso, of which 30 were sea, water, and grease damaged, offered, for which from 13s. to 13s. 9d. was wanted, the latter being for good bold slightly water-damaged. For three bales good bright sound 14s. was paid, and part mouldy went at 13s. Eleven bags fair Cartagena were offered and sold at 12s. 6d. per lb., being rather dearer than the previous auction price. Four bales of leanish Minas were held at 13s. 6d.

**KOLA** was 1d. per lb. cheaper for West African, 50 bags of small to medium quarters selling at 5d., subject to seller's approval. West Indian was steady, nine bags fair bright selling at from 6½d. to 7d. and 20 bags fair Java halves, slightly dark, at 7d. per lb.

**LEMONGRASS OIL.**—Twenty cases of Cochin sold at 4d. per oz.

**LIQUORICE-JUICE.**—Twelve cases Etna brand offered without reserve and were taken up; 125 cases of another mark (guaranteed 80 per cent. extractive soluble in cold water) offered and held at 280s. Twenty cases of "Negro" 1-oz. sticks offered without reserve, but no bids were made and the lot was retired.

**LIQUORICE-ROOT.**—Fifty bundles Spanish undecorticated sold at 55s. per cwt.

**MYRRH** sold at previous auction rates, four bags of good fair pale Aden sorts, slightly blocky, realising 18½ per cwt.; three bales ordinary, partly blocky, sorts sold at 12½ per cwt.

**OLIBANUM.**—Eight bags very blocky and dusty pickings sold at 17s. 6d., and a bag of ordinary garblings went at 37s. Two cases blocky of blocky garblings sold at 27s.

**ORANGE-PEEL** rather cheaper; 16 cases fair bright strip *via* Malta offered without reserve and sold at 1s. 3d. per lb., subject to seller's approval, and ten cases ordinary dull strip also offered without reserve and sold at 1s. 4d. to 1s. 5d.

**QUINCE-SEED.**—Fourteen bags of ordinary Cape offered, for which 3s. 6d. per lb. was wanted.

**RHAPONTICA-ROOT.**—Nineteen bags ordinary Chinese offered and retired at 1s. 4d. In another interest 10 bags of good offered at 2s. 6d., and 10 bags ordinary small finger at 1s. 6d.

**RHUBARB.**—Eighty cases have arrived from Shanghai. At auction 10 cases Canton offered and were held at 10s., this including two cases of medium flat with three-quarter very good pinky fracture, but four cases were small to medium round with seven-eighths common dark fracture.

**SAESAPARILLA** was quite neglected, the quality of the grey Jamaica offered being inferior and part wormy, from 1s. 9d. to 2s. being wanted. Five bales sound were held at 2s. 9d., part mouldy Lima-Jamaica was held at 2s., and sound at 2s. 6d. Native Jamaica was bought in at 1s. 6d.

**SENNA.**—The arrivals in London comprise 559 bales from Port Sudan and 443 bales from Tuticorin. In auction Timnevely leaf was ½d. per lb. higher. Ordinary sound small yellowish Timnevely sold at 7d. to 7½d. sea-damaged ditto at 6½d. to 6¾d., and inferior yellow at 5½d. to 6d. Thirty bales of dark to fair Timnevely pods sold without reserve at 3d. to 3½d. and good at 4½d. Five bales of sea-damaged pods realised 4d., and five bales sound went at 4½d., at which further lots were available.

**SULPHONAL.**—Three boxes of 1 lb. each of U.S.P. quality offered and retired at 35s. per lb.

**VALERIAN.**—Five bales rather dusty Belgian of fair colour offered and held at 190s.

**WAX, BEES'.**—Quiet; 20 bales Mozambique sold at 9½ for fair roll, and two boxes good Dominican went at 9½; good Jamaica was held at 11½ 12s. 6d.



## Arrivals of Drugs, Chemicals, and Allied Produce.

The following arrivals have taken place at the ports named:

**London**  
(September 8 to 15).  
Antimony (Jp.) 90 cs., (Ch.) 50 cs.  
Barytes (Sp.), 1,600 bgs.  
Butyl alcohol (Can.), 85 drms.  
Carbon black (N.Y.), 160 cs.  
Chemical products: not described (Norw.), 40 cs.  
Acetic acid (U.S.), 163 brls.  
Argol (Sp.) 51 cks., (Cape) 51 pkgs.  
Barium carb. (N.Y.), 293 bgs.  
Boric acid (N.Y.), 539 pkgs.  
Calc. cit. (Demerara), 27 cks.  
Calc. tart. (Sp.), 19 brls.  
Formaldehyde (N.Y.), 112 brls.  
Milk sugar (Amst.), 100 cs.  
Oxalic acid (R'dam), 12 cks.  
Potash, (Black Sea) 2,772 cs., (R'dam) 365 drms., (U.S.) 10 cks.  
Pot. iodide (Jp.), 30 cs.  
Tartar (Sp.) 45 brls., (Fr.) 343 bgs., (It.) 80 brls.  
Tartaric acid (It.), 200 brls.  
Zinc oxide, (N.Y.) 1,220 brls., (R'dam) 50 cks.  
Cocoa butter (N.Y.), 201 cs.  
Dextrin (Jp.), 70 bgs.  
Drugs, crude: roots and leaves, (It.) 14 pkgs., (U.S.) 15 pkgs.; herbs (Sp.), 32 brls.  
Aloes (N.Y.), 220 cs.  
Balsams (Cristobal), 5 cs.  
Calumba (Mozamb.), 3,228 bgs.  
Camphor (Jp.) (re-fined) 50 cs., (crude) 20 cs. (Ch.) 295 cs., (Antw.) 5 bxs.  
Cardamoms (Cey.), 314 cs.  
Cascara (N.Y.), 81 cs., 2,751 bgs.  
Cinchona (Cristobal), 54 brls.  
Cod-liver oil (R'dam), 50 cs.  
Copaiba (N.Y.), 20 cs.  
Croton seed (Cey.), 10 bgs.  
Culvers root (N.Y.), 37 brls.  
Galls (Smyr.), 5 bgs.  
Insect flowers (It.), 38 brls.  
Kola (W.I.), 19 bgs.  
Liquorice (Smyr.), 82 cs.  
Liquorice-paste (Sp.), 75 cs.  
Nux vomica (Ch.), 450 bgs.  
Opium, (Egypt) 2cs., (Smyr.) 89 cs.  
Sarsaparilla (N.Y.), 22 brls.  
Scopola (U.S.), 5 brls.  
Senega (Can.), 31 sks.  
Tamarinds (W.I.), 62 brls.  
Thymol (N.Y.), 10 cs.

Turmeric (Madr.), 80 bgs.  
Witch-hazel ext. (N.Y.), 30 kgs.  
Drugs, medicines, etc.: not described (N.Y.), 371 pkgs.; fig syrup (U.S.), 9,000 cs.; glycoheroin (N.Y.), 120 cs.; glyco-thymoline (N.Y.), 719 bxs.; liniment (N.Y.), 1,000 cs.; ointment (Can.), 12 cs.  
Dyes, dyeing and tanning materials, etc.: aniline dyes (Ostend), 479 pkgs.; extract, tanning, (U.S.) 724 brls., (Fr.) 125 cks.; logwood ext. (U.S.), 75 brls. 201 bxs.; wattle bark (Natal), 3,313 brls.; wattle ext. 6,581 bgs.  
Egg products: albumen (Ch.), 1,175 cs.; (dried), 185 cs.; melange, liquid (Ch.), 280 cs.; powder (Ch.), 642 cs.; whole egg (Ch.), 135 cs., (dried) 112 cs.; (spray) 466 cs.; yolk (Ch.), 1,377 cks., 437 brls. 406 cs., (liquid) 56 cks., 398 cs., (powder) 400 cs.  
Glucose (U.S.), 1,940 brls. 210 × ½ brls. 4,000 cs.  
Gums, resins, etc.: gum, not described, (S.S.) 705 cs., (Ch.) 45 cs., (Siam) 15 cs.; acacia (Alex.), 250 bgs.; acroïdes (Tky.), 75 bgs.; copal, (S'pore) 712 cs., (Ch.) 49 cs.; damar (S'pore), 110 cs.; dragon's blood (S'pore), 22 cs.; gambier (S'pore), 2,833 cs.; gamboge, (S'pore) 15 cs., (Siam) 53 cs.; lac, stick (Siam), 126 cs.; resin, (U.S.) 4,800 brls., (Fr.) 760 cks.  
Henna (Egypt), 14 brls.  
Honey, (W.I.) 16 cs., (N.Y.) 111 brls., (Belg.) 63 cs.  
Lime-juice (W.I.), 82 hds., 119 cs., (concent.) (Demerara) 7 cs.  
Lithopone, (U.S.) 250 brls., (R'dam) 1,200 cks.  
Mercury (Genoa), 1,000 botts.  
Oils, essential: (Ch.) 150 cs., (Sic.) 116 pkgs., (Sp.) 12 drms., (U.S.) 11 drms.; bay (W.I.), 4 cs.; cinnamon (Cey.), 1 pk.; lemon (Sic.), 22 × ½ cs.; lime (W.I.), 99 pkgs. 5 cs.; mint (Jp.), 173 cs.; rose (Smyr.), 4 cs.; turpentine, (U.S.) 5,000 brls., (Fr.) 200 brls.  
Oils, fixed: coconut, (Jp.) 5,000 cs., (U.S.) 1,323 brls., (Cey.) 18 hds., (R'dam) 1,066 brls. 277 drms.; fish (Jp.), 2,055 cs.; ground-nut (Ch.), 3,200 cs.; hardened (Jp.), 3,378 cs.; olive (Sp.), 472 brls., 225 cs.; rape (R'dam),

135 drms.; soya bean (Jp.), 7,300 cs.; sulphur (Sp.), 125 brls.; tea-seed (Ch.), 5,700 cs.; whale, (W.I.) 9 pkgs. 56 brls., (Cape) 6,556 cs.; wood, (Ch.) 2,138 cs. 210 brls. (S'pore) 200 drms.  
Petrolatum (N.Y.), 250 brls.  
Seeds: apricot kernels (Ch.), 133 bgs.; canary (Smyr.), 24 bgs.; caraway (Holl.), 140 bgs.; copra, (S.S.) 13,560 bgs., (W.I.) 18 bgs., (N.Y.) 2,203 bgs., (Cey.) 480 bgs.; (E. Af.) 6,181 bgs.; cotton, (S. Amer.) 1,701 bgs., (Madr.) 24,774 bgs., (Smyr.) 127 tons, (Natal) 85 bgs.; ground-nuts, (Ch.) 896 brls., 3,594 bgs., (Madr.) 36,100 bgs., (E. Af.) 2,435 bgs.; lin, (E.I.) 4,710 bgs., (Alex.) 762 bgs.; millet, (U.S.) 840 bgs., (Smyr.) 16 bgs.; palm (Aust.), 172 cs.; rape, (Jp.) 2,000 bgs., (Ch.) 321 bgs.; sunflower (Natal), 110 bgs.  
Soy (Ch.), 160 cks.  
Spices: arrowroot (St. Vincent), 1,782 brls.; cassia (Ch.), 3,762 cs. 100 brls. 400 pkgs.; chillies, (Natal) 123 bgs., (E. Af.) 215 bgs. 50 brls.; cinnamon (Cey.), 100 brls. 325 bgs.; cloves, (Natal) 124 brls., (N.Y.) 606 brls., (Zanzib.) 1,203 brls.; ginger (Madr.), 193 bgs.; nutmegs (S.S.), 418 cs. 400 bxs.; pepper, (S'pore) 24,680 bgs. 336 cs., (Siam) 385 bgs., (P. Said) 910 bgs., (Madr.) 666 pockets, 1,518 bgs.; pimento (Sp.), 110 cs.  
Starches: farina (Jp.), 13,813 bgs.; wheat (Jp.), 500 brls. 3,100 bgs.  
Talc (Delag. Bay), 700 bgs.  
Wax, bees', (Ch.) 3 bgs. (E. Af.) 541 pkgs. 279 bgs.  
Wax, paraffin, (U.S.) 2,675 bgs. 1,437 brls., (Amst.) 800 bgs., (scale) (U.S.) 7,050 brls.  
**Liverpool**  
(September 8 to 12).  
Barytes, (U.S.) 640 brls., (S.) 500 bgs. 1,000 sks.  
Bronze powder (Can.), 3 cs.  
Chemical products: Boric acid (It.), 100 bgs.  
Sulphur (It.), 454 bgs.  
Tannic acid (N.Y.), 10 cs.  
Tartar, (It.) 42 cks., (N.Y.) 10 pkgs.  
Tartaric acid (It.), 40 brls.  
Dextrin (N.Y.), 1,264 bgs.  
Drugs, crude: herbs, (It.) 12 bgs., (Fr.) 78 bds.; cubebs (Amst.), 11 bgs.;

liquorice-juice (It.), 50 cs.; orris (It.), 8 bgs.  
Drugs, medicines, etc.: not described (U.S.), 71 cs.; Fellows' syrup (N.Y.), 780 cs.  
Dyes, dyeing and tanning materials, etc.: bark, tanning (W. Af.), 313 bgs.; chestnut ext., (It.) 700 cks. 760 pkgs. 1,450 brls., (U.S.) 521 brls.; cochineal (N.Y.), 38 bgs.; extract, tanning, (It.) 150 cks., (U.S.) 4,539 brls. 695 bgs., (Fr.) 59 cks.; hematine cryst. (N.Y.), 40 brls.; logwood ext. (U.S.), 200 brls. 450 bxs.; sumac (It.), 1,000 bgs.  
Glucose, (U.S.) 650 × ½ brls. 500 kgs. 300 brls., (Cau.) 120 brls.  
Lithopone (U.S.), 276 brls.  
Gums, resins, etc.: acacia (Alex.), 300 bgs.; copal (U.S.), 19 bgs.; resin (U.S.), 2,000 cks. 2,450 brls.  
Mineral white, (It.) 600 bgs., (Norw.) 600 bgs.  
Oils, fixed: coconut (U.S.), 4,773 brls.; cotton-seed (N.Y.), 1,949 brls.; extract, tanning (N.Y.), 68 brls.; olive, (It.) 515 bxs., (Sp.) 56 brls.; palm (W. Af.), 1,062 cks.; sperm (U.S.), 145 brls.; sulphur (It.), 100 brls.  
Perfumery (Fr.), 114 cs.  
Petrolatum (N.Y.), 1,100 cs.  
Seeds: caraway (Amst.) 20 brls.; ground-nuts (U.S.), 600 bgs.; lin (E. I.), 682 bgs.;

millet (U.S.), 434 bgs.; palm kernels (W. Af.), 116,716 bgs.  
Soapstone (It.), 500 bgs.  
Starch: wheat (N.Y.), 7,702 bgs.  
Talc (It.), 400 bgs.  
Turpentine (U.S.), 2,000 cks. 700 brls.  
Wax, not described (U.S.), 75 bgs.  
Wax, paraffin, (U.S.) 3,082 brls., (Amst.) 800 bgs.  
Zinc white (Belg.), 100 brls.  
**Folkestone**  
(September 5 to 12).  
Drugs (Fr.), 19 pkgs.; dyes (Fr.), 9 pkgs.; essential oils (Fr.), 7 pkgs.; oil, not described (Fr.), 31 pkgs.; olive oil (Fr.), 4 carboys; perfumery (Fr.), 86 pkgs. 116 carboys.  
**Goole**  
(September 6).  
Chamomiles (Ghent), 10 brls.  
**Hull**  
(September 6 to 12).  
Acetic acid (N.Y.), 217 brls.; caraway seed (Amst.), 90 brls.; carbon black (N.Y.), 1,206 cs.; copal gum (W. Af.), 3,888 bgs. 774 paniers, (Belg.) 360 bgs.; copper sulph. (R'dam), 51 brls.; Dutch drops (R'dam), 6 cs.; ergot (Sp.), 19 bgs.; essential oils (Amst.), 2 cs., 10 demijohns; formaldehyde (N.Y.), 84 brls.; ginger (W. Af.), 1,600 bgs.; linseed oil (Amst.), 116 cks.; lithopone (N.

Y.), 20 brls., (R'dam) 80 cks.; myrabolans (Cal.), 1,350 pkts.; palm oil (W. Af.), 204 cks. 41 brls.  
Seeds: cotton (E.I.), 56,859 bgs.; lin (E.I.), 36,122 bgs.; palm kernels (W. Af.), 27,963 bgs. 1,423 paniers; soya (Jp.), 200,194 bgs.; tale (N.Y.), 200 bgs.  
**Manchester**  
(September 8 to 12).  
Almonds (It.), 200 cs. 145 bgs.; citric acid (Sic.), 10 cks.; coconut oil (N.Y.), 217 brls.; gallic acid (Can.), 11 brls.; olive oil (It.), 100 bxs.; petrolatum (N.Y.), 96 brls.; phosphorus (Can.), 850 cs.; soda, caustic (Can.), 318 drms.; sulphur oil (Sic.), 100 brls.; su mac, 50 bls. 400 bgs.; tannic acid (Can.), 30 brls.; tartaric acid (It.), 148 brls.; wax, paraffin (N.Y.), 280 brls., (scale) 1,600 brls.  
**Newhaven**  
(September 6 to 13).  
Chemicals (Fr.), 9 pkgs.; drugs (Fr.), 15 pkgs.; perfumery (Fr.), 232 pkgs.  
**Southampton**  
(September 9 to 11).  
Casein (Fr.), 226 bgs.; coconut oil (Natal), 75 drms.; tartar (Fr.), 70 cs.; wattle bark (Natal), 2,503 brls.; wattle extr. (Natal), 4,850 bgs.; wattle bark (Natal), 392 bgs.  
Egg products: albumen (Ch.), 142 cs.; whole egg (liquid), 134 cks.; yolk (Antw.), 53 cs.; (dried) (Ch.), 56 cks. 68 cs.; (liquid), 50 brls. 38 cks.  
Gelatin (Sp.), 90 cs.  
Glucose (N.Y.), 400 × ½ brls. 800 kgs. 800 brls. 8,993 cs.  
Gums, resins, etc.: not descr., (P. Sudan) 12,909 bgs., (Fr.) 770 bgs., (Belg.) 1,450 bgs.; copal, (Jv.) 604 bgs. 1,640 bskts., (Amst.) 135 bskts., (Ch.) 30 cs., (S'pore) 200 cs.; damar, (Jv.) 2,275 cs.; lac: button (Cal.), 50 cts. 36 cs. 45 pkgs.; garnet, 100 cs.; shell, 150 cts. 890 cs. 270 pkgs.; resin, (Gre.) 100 cs.; (Port.) 136 cks., (U.S.) 1,500 brls., (Fr.) 1,748 cks. 150 brls., (Sp.) 641 cks. 8,066 bgs.  
Honey (Calif.), 282 cs. Kieselguhr (Sp.), 200 sks.  
Lead, white (Antw.), 55 cks.  
Magnesite (Amst.), 200 bgs.  
Molasses (N.Y.), 1,496 brls.  
Monazite sand (Tati-caron), 999 bgs.





### C. & D. Diamond Jubilee.

SIR.—I cannot allow the anniversary to go by without offering my hearty good wishes for the success of *THE CHEMIST AND DRUGGIST*. For over fifty years I have been a subscriber, and I am afraid a too frequent contributor; but throughout that time the publication has been of great value and interest to me. Its policy has been dictated by men of common-sense views and business knowledge, and had this policy been more widely followed and supported our business would not have to assume the unsatisfactory condition it is in to-day. I must offer to the staff my best thanks for the kindness and help I have always received from them, and I pay my tribute of respect to the departed ones with whom I had the pleasure of correspondence during many years. May the future of the *C. & D.* be a bright one.

I am yours, with all good wishes.

Oxford.

G. CLARIDGE DRUCE, Ph.C., LL.D.

### Quinine as an Economic Weapon.

SIR.—In a very interesting article published in your issue of September 20 on the subject of quinine supplies during the war I notice a kind reference to my own activities in this connection. As my name appears to be the only individual name mentioned in the article I feel that it is incumbent upon me to state that I should not have been successful in satisfactorily achieving that which it has been my pleasure to do without the invaluable aid rendered by Mr. A. C. McLachlan, who was in charge of the Dutch Section of the War Trade Intelligence Department during the war and whose knowledge of Java and Dutch affairs is so profound; and also of Mr. D. Lloyd Howard, of Howards & Sons, Ltd., who devoted much of his time to conducting the negotiations and also to carrying out the agreement, and whose personal relations with the Dutch quinine manufacturers were of invaluable assistance in bringing the negotiations to a satisfactory termination.—Yours faithfully,

38 Dover Street, London, W.

H. S. ABRAHAMSON.

### The "Secrets of Salerno."

SIR.—Alas! I am no antiquarian, but I saw a manuscript recently at the Royal Irish Academy in Dublin which would move the most hardened modernist to enthusiasm. It consists of 202 numbers on vellum folios in the very best style of early fifteenth-century handwriting. It has several hundred beautifully executed paintings of plants and other pharmaceutical objects—mercury in a bowl, vessels of wine, fishes of pharmaceutical interest, bitumen, shells, resin (colefoine), dragentum or couperos, mortar and pestle, and pumice-stone. It is called the "Secrets of Salerno," and there is, I understand, no copy in Great Britain, though there are said to be copies in Paris and Brussels. The work was originally composed in Latin by a physician of the School of Salerno, called Platearius, whom Camus of Modena, who has investigated the history of the work, ranks with Dioscorides and Pliny in the history of botany. The original work was called "Liber de Simplici Medicina," and is better known from the opening words, "Circa Instans." The present work contains exquisite drawings of most well-known medicinal plants, and is of high importance because of the account it gives of the medical botany of the Middle Ages. Each chapter is introduced by a large gold initial ornamented in blue and red, and each sentence begins with a plain capital inlaid with a patch of yellow. One page has a flowing margin ornamented with gold, green, blue, and red. It came into the possession of the Royal Irish Academy apparently in 1842, and no note was made of its reception until M. Esposito, the well-known MSS. scholar, discovered it this year and described it. I doubt if any pharmacist, or even any physician, had seen it, at least for the past century, until

I examined it. The evil of all old medical books is that they consist of about 90 per cent. opinions and surmises which are mostly croneous, together with 5 per cent. of observation which may be useful if it is accurate. The drawings are by a master hand—beautiful and accurate. The text, in old Norman French, with I or J or U or V for I or U, reads like this:

Aloen est de seche et chaulde complexion ou second degre. Aloen est fait du jus d'une herbe qui est appellee aloen, mais nous l'appellons jubar. Ceste herbe cy ne croist pas seulement en Inde, en Perse, en Grece, mais en Puisse. Et sont trois manieres de aloen; cicotin, epatic, et cabalin. Et est fait aloen en ceste maniere: l'erbe pilee et puis l'en esparme le jus, et est mis au feu jusque a tant qu'il bouille. Et quant il bost l'en l'oste du feu et est mis au soleil sechier. . . .

### Translation.

Aloes is of a dry and hot complexion in (or of) the second degree. Aloes is composed of the juice of a plant which is called aloes, but we call it jubar. This plant grows not only in India, in Persia, in Greece, but in Apulia. There are three kinds of aloes, Socotrine, hepatic, and Caballine. Aloes is made in this way: the herb is bruised, and then we . . . the juice and place it on the fire till it boils. And when it boils (?) it is taken off the fire and placed in the sun to dry.

Saoun est chault et sec, et en est de trois manieres: l'un est appelle saoun sarasin, l'autre saoun a juifz ou spatarent pour ce que les juifz s'en lauent, l'autre saoun galique ou francois. Le saoun sarasin est fait d'une lexive appellee capitellum et de huile d'olive bouillis ensemble jusques a tant qu'ilz soient espes. Le galique ou francois est fait de ce capitellum avec suif de mouton, et est blanc moult. Et le spatarent aux juifz est fait du sarasin avec moult de autres choses chauldes. Capitellum de quoy l'en fait ces saouns, est fait de lexive faite de forte cendre en laquelle l'en met de la chaux vive tremper par trois iours et puis soit coulee, et ce qui en ystra le premier c'est capitellum. . . .

Zucara. C'est sucre. Il est chault et moite attrempeement. Et dit Ysaac qu'il est chault au commencement du premier degre et moite ou mylieu. Et oultre dit. . . .

Sucre vault moult a ceulx qui ont touz et a ceulx qui ont soif par chemin es regions chauldes quant l'en ne peuet trouver autre liqueur. Il est bon a ceulx qui sont sechiez et amaigriz par maladie et a ceulx qui ont courte alaine par seichele de poitrine. Et le doit on mesler avec leurs beuvraiges et viandes car il les fera entrer en char et les amoitra. Eet vour cuitier prolixitee c'est la fin de ce liure ouquel sont contenuz les secretz de Salerno. Deo graecias. Explicit.

Soap is hot and dry, and is of three kinds: one is called Saracen soap, another Jewish soap, or *Spatarent*, with which the Jews wash themselves, the other Gallic or French soap. Saracen soap is made of a lye called *Capitellum* and olive oil boiled together until they are thick. The Gallic or French is made of this *Capitellum* with sheep's tallow, and is very white. And the *Spatarent* of the Jews is made of Saracen (soap) with many other hot things. *Capitellum*, of which these soaps are made, is made of lye made of strong ashes in which is put quicklime, slaked for three days and then strained (?), and that which . . . first is *Capitellum*.

Zucara. This is sugar. It is moderately hot and moist. Also, Isaac says that it is at the beginning hot in the first degree and moist in the middle (degree). Someone else says . . .

Sugar is of great value for those who have a cough and for those who are thirsty when travelling in hot countries, when no other liquor can be found. It is good for those who are parched and wasted through illness, and for those who are short of breath through dryness of the chest. And it should be mixed with their beverages and viands, for it will (make them sweat?) and moisten them. And to avoid prolixity, this is the end of this book, in which are contained the secrets of Salerno.

Many of the *C. & D.* readers are bibliophiles—perhaps they know more about the work. What is meant by "Esparme," "Ystra," which are left untranslated?

Dublin.

Yours truly,  
J. C. McWALTER.

### Medical Benefit Administration.

SIR.—The Preston Insurance Committee (*C. & D.*, September 20, p. 66) seem very anxious to impress the panel patients with the idea that the prescriptions they receive are quite equal to those given to private patients;



possibly they are, although this would be no ground for rejoicing in many instances, but can the Committee say as much for the diagnosis and prescribing? The issue of local formularies and the use of stock mixtures were the worst moves from the patients' point of view that have been made so far, as the doctor frequently disregards all examination and prescribing according to the conditions found. A man has a bad cough—mist, tussis; it makes no difference whether he has incipient tuberculosis, elongated uvula, or a fishbone in his throat—mist, tussis is the formulary mixture for a cough, and the patient has to have it. The next one has a pain in his back, probably through digging in his allotment. Mist, sod. sal. is his remedy, and he gets "Rep. mist." time after time until he feels low-spirited enough to dig his own grave. At the beginning of the next month the doctor has to write a new script, as he has probably quite forgotten what he ordered before, or what the patient is suffering from, and as he is much too hard-worked to keep a record of panel patients, or to turn up the old prescription, he says, "How do you feel now?" "Oh, very low-spirited and depressed, doctor." "Yes, exactly." Then it is mist, tonic c. strychn. the man gets for another month, by which time the pain reappears in his back, and he is ordered mist, sod. sal. again, and so the game goes on. Patients seldom have proper treatment, and drag on from month to month until something chronic supervenes. The Drug Fund is charged with useless and wasted medicine which the chemist supplies practically for nothing, and the doctor—happy man!—claims a higher fee on the ground of increased expenses and harder work. The fact is that in many cases, the doctor being certain of his fees for panel patients, looks on them as a nuisance, to be got rid of in the quickest possible time, so that he may get on with his proper work in attending private patients. If the Insurance Committees had the courage of their convictions they would cut out "Rep. mist." formularies and stock mixtures right away. Panel patients should be given a book of coupons, so that when requiring treatment they could go to any panel doctor in the district, the names and addresses being printed on the cover, and the doctor could tear off one coupon for each visit, this being his voucher for payment; while if the patient is not satisfied, or if the surgery is full up at the time, he could go elsewhere.

Yours truly,

Coupon. (199/5.)

## Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

### Summer-time Ends.

During the night of September 28-29 normal time is resumed in the British Isles. All clocks and watches should be put back one hour.

Again the end of "Summer Time" has come!  
We backward set our clocks,  
Leave seaside, sands, and rocks,  
And bid adieu to "Bummer" on the "bum"!

Alas! 'tis true no waiting knoweth Time!  
But meanwhile we may take  
One hour—a nation's fake—  
Asleep, at work, or aperiencing poet's rhyme.—A. E. W.

### Warnings to Chemists.

A large quantity of aspirin tablets are being offered at very low prices. Chemists should carefully examine such tablets, as those to which our attention has been called are old stock and are decomposing, probably owing to the conditions of storage.—(35/49.)

By inducing chemists to cash cheques after the bank has closed a man (who assumes a military title) and a woman are obtaining money under false pretences, as they have no money at the bank to meet the cheques. The couple take a furnished house in the district in which they operate.—(35/58.)

## Legal Queries.

**J. M. (19/2).**—USE OF METHYLATED SPIRIT IN DISPENSING.—The Board of Customs and Excise permit chemists to use mineralised methylated spirits in the preparation of lotions for external use prescribed by duly qualified medical practitioners. A licence to retail methylated spirits would not be required for the above purpose.

**J. J. P. (27/24)** owns a house which he wishes to sell. The tenant, however, refuses to allow anyone to enter the premises to make a valuation, with the result that no sale can be effected. Is the tenant acting within his rights? [Unless under the lease or tenancy agreement the tenant has agreed to give access to the premises he cannot be compelled to do so.]

**W. W. (21/9).**—(1) As a general rule no one has a copyright in his name, but a local medical man might object to the use of his name on a proprietary medicine in which he had no interest. (2) The privilege of selling "known, admitted, and approved remedies" is confined to medical men, chemists, and those "who have served a regular apprenticeship" to a chemist. (3) You may not send samples of proprietary medicines duty free if you receive any payment—even for postage.

**W. A. B. (25/35)** is agent for a firm of dyers and a number of articles which he had forwarded to the firm, on behalf of customers, were destroyed by a fire which occurred at the firm's works. Upon whom does the loss fall? [In our opinion neither "W. A. B." nor the firm is liable in respect of the goods destroyed by fire, and the loss must be borne by the customers. If, however, the firm had insured the goods against damage or destruction by fire, and receive compensation from the insurance company, the amounts received must be paid to the owners of the goods. The above remarks are made upon the assumption that no special contract with regard to the matter was entered into.]

**J. N. (32/58)** bought a motor car over three months ago for which he gave a receipt which contained the words "inspected and tried." The accumulator for the lighting set was not handed over at the time, the seller promising to forward it as soon as it had been charged. Up to the present the accumulator has not been delivered, and "J. N." has received from the seller several postcards in which he makes excuses for its non-delivery. What course do we advise "J. N." to follow? ["J. N." should call upon the seller to deliver the accumulator within a stated period, allowing a reasonable margin of time, and, if the seller fails to comply with the demand, "J. N." should purchase a similar accumulator and sue the seller for the price as damages for non-delivery of the accumulator he contracted to supply.]

**Associate (18/70).**—(1) DIRECTORS AS EMPLOYED PERSONS.—A director of a company is not as such employed under a contract of service within the meaning of the National Insurance Act, and is accordingly not required to be insured thereunder in respect of such employment. A director who is also a secretary of a company and is not so employed under a separate contract is not liable to compulsory insurance in respect of his duties as secretary. On the other hand, if a director is a superintendent of a pharmacy business under the Poisons and Pharmacy Act, 1908, and his total income is under 250 $\frac{1}{2}$ %, he is an employed person within the meaning of the National Insurance Act. (2) LIMITED COMPANIES need not use the word "Limited" on labels, as these do not come within the terms of the section which enumerates the circumstances in which such companies must describe themselves as "limited."

**E. H. S. (29/24)** intends to start in business on his own account, and asks whether, in the event of his becoming bankrupt, his creditors could claim a house of which he is the owner. If so, could he safeguard the house by making a gift of it to his wife? [In the event of "E. H. S." becoming bankrupt the house would become vested in the trustee in bankruptcy for the benefit of the creditors. If "E. H. S." makes a voluntary settlement of the house upon his wife the property would still be available for the satisfaction of the claims of his creditors if he becomes bankrupt within two years after the date of the settlement. Even if "E. H. S." did not become bankrupt within two years, but did so within ten years after the date of the settlement, the house could be claimed by the trustee in bankruptcy unless "E. H. S.'s" wife can prove that "E. H. S." was at the time of making the settlement able to pay all his debts without the aid of the settled property, and that "E. H. S.'s" interest in the property had passed to her upon the execution of the settlement.]

## Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

G. A. S. (23/16).—(1) Gattefossé's "Agenda du Chimiste-Parfumeur" is not obtainable in English. (2) PEROXIDE CREAM.—See C. & D., February 10, 1917, p. 52.

Guy (3/71).—There is no formula of the kind you mention in Guy's Hospital Pharmacopœia.

A. E. F. (4/17).—(1) MANDI'S PAINT for the throat:

Iodini	...	...	gr. vj.
Potass. iodidi	...	...	gr. xx.
Ol. menth. pip.	...	...	℥v.
Glycerin ad.	...	...	3j.

(2) NURSERY POMADE:

Yellow wax	...	...	3ix.
Lard	...	...	3vj.
Olive oil	...	...	3vj.

Melt and to the mixture add

Veratrine	...	...	gr. x.
Oleic acid	...	...	3ss.

Previously rubbed together in a mortar. Stir well and perfume with

Oil of lemon	...	...	3j.
Oil of bergamot	...	...	3j.
Oil of verbenia	...	...	℥v.

(3) SKIN CREAM.—See reply to "T. A."

T. A. (89/7).—VANISHING CREAM.

Skimmed milk	...	...	Cong. j.
Powdered alum	...	...	3j.
Boric acid	...	...	3ij.
Glycerin	...	...	3ij.
Oil of bitter almonds	...	...	℥xxx.
Oil of rose-geranium	...	...	℥x.
Carminc solution	...	...	a sufficiency

Heat the milk to about 170° F. Dissolve the alum in 4 pints of hot water and add it to the milk slowly, with constant stirring. Continue the heat and stirring until precipitation is complete. Let the mixture stand till cool, pour off the clear liquor, add to the precipitate 1 gal. of water, stirring and breaking up the magma as much as possible. Allow this to separate, pour off as much as possible of the water, collect the casein on a cheese-cloth strainer, squeeze out all the water possible, then dry between sheets of blotting-paper without artificial heat. Place the casein in a large mortar, add the glycerin in which the boric acid has been dissolved, and beat and rub the mass till it is perfectly smooth and soft. Set aside for six hours and pour off the water that separates, then beat in the oils and carmine, adding a little more glycerin if necessary to bring to the proper consistence.

H. M. T. (217/44) and C. S. (250/29).—BOOT POLISH.—See C. & D., November 30, 1918, p. 52, November 16, 1918, p. 56, or September 14, 1918, p. 52.

Vemo.—(251/9).—DRY SHAMPOO.—See C. & D., May 24, p. 72.

W. E. W. (218/17).—ANUSOL SUPPOSITORIES IMITATION.—

Bismuth oxydide,	...	...	...
Bismuth subgallate,	...	...	...
Zinc oxide	...	of each	1 gram
Resorcin	...	...	0.1 gram
Peru balsam	...	...	0.5 gram
Theobroma oil	...	...	26.4 gram

Make into suppositories weighing 3 grams each.

Zero (31/20).—DAKIN'S SOLUTION.—See *The Chemist and Druggist Diary*, 1918, p. 70.

W. W. (21/9).—(1) HERBA SANCTA.—*Scenecio Jacobæ* is known as herba sancti Jacobi, and there is also, we believe, a herba sancti Stephani. (2) A revised edition of "Pharmaceutical Formulas" has just been published.

P. R. W. S. (25/49).—(1) Zinc is not a suitable metal for a developing tank on account of the action upon it of the alkali in photographic developers. (2) We do not know of a successful combined toning and fixing bath which does not contain gold.

H. G. P. (26/58).—BOOKS ON AGRICULTURAL CHEMISTRY.—Wood's "Course of Practical Work in Agricultural Chemistry" (Cambridge University Press, 2s. 6d.); Wiley's "Principles and Practice of Agricultural Analyses," 2 vols. (Williams & Norgate); Ingle's "Elementary Agricultural Chemistry" (Griffin, 4s. 6d.); Ingle's "Manual of Agricultural Chemistry" (7s. 6d., Scott, Greenwood).

R. A. S. (258/58).—HAIR-FIXING CREAM.—

Powdered tragacanth	...	...	gr. l.
Essence of Parma violet	...	...	℥l.
Rectified spirit	...	...	3iiss.
Glycerin	...	...	3iss.
Distilled water	...	...	3x.

Mix the essence and spirit, and with them damp the tragacanth, then add the glycerin and water, and shake well.

J. N. (32/58).—STORM-GLASSES.—Nearly fill a glass tube 10 in. long and  $\frac{3}{8}$  in. diameter with the following liquid, then hermetically seal:

Camphor	...	...	3ij.
Potassium nitrate	...	...	5ss.
Ammonium chloride	...	...	5ss.
Absolute alcohol	...	...	3ij.
Distilled Water	...	...	3ij.

Dissolve.

The indications (which at most are only approximate) are that a clear liquid implies bright weather; a dim liquid, rain; dim liquid with small stars, thunderstorms; large flakes, heavy air, overcast sky, snow in winter; threads in upper portion of liquid, windy weather; small dots, damp weather, fog; rising flakes which remain high, wind in the upper air regions; small stars in winter on bright, sunny days, snow in one or two days.

Electro (32/62).—BOOKS ON MEDICAL ELECTRICITY.—Lewis Jones's "Medical Electricity" (10s. 6d., Lewis); Guilleminot's "Electricity in Medicine" (17s., Rebman). *The Chemist and Druggist Diary*, 1911, contained a treatise on medical electricity.

J. W. M. (32/47).—RAISING THE FLASH-POINT OF SPIRIT.—In the ordinary way the addition of water is the readiest way of doing this, but in the case of a spirit varnish probably too great a precipitation of resin would take place. A small amount of carbon tetrachloride might effect the purpose desired.

E. C. (30/54).—We have no further details of the tooth-powder to which you refer.

J. D. (31/24).—ARMY TABLET NO. 13.—The following is the formula for this:

Ext. coloc. co.	...	...	gr. i.
Ext. jalape.	...	...	gr. ss.
Podophyllin	...	...	gr. $\frac{1}{4}$
Leptandrin	...	...	gr. $\frac{1}{2}$
Ext. hyoscyami	...	...	gr. $\frac{1}{4}$
Ext. taraxaci	...	...	gr. $\frac{1}{4}$
Ol. menth. pip.	...	...	q.s.

Ft. tab.

W. I. (30/9).—DEPILATORIES.—The following are from "Pharmaceutical Formulas":

I.		II.	
Barium sulphide	. 3iss.	Barium sulphide—	. 1 to 3 parts
Zinc oxide	. 3vj	Starch powder	. 3 parts

Directions: Mix into a paste with water at the time of using, spread over the part required, and remove at the end of five or ten minutes.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1869.

### A Journalistic Joke.

"Welcome, little stranger!" Such was our involuntary exclamation on finding a joke in one of the leading articles of this month's "Pharmaceutical Journal." Our grave contemporary states that "The Pall Mall Gazette" has commended "pharmacy (*not pharmacists*) to the ladies." We see in this genial little parenthesis the promise of a brighter day.



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(Cryst. l. Ground).	Bichromate of Soda (74/75%) (Anhydrous. Granular)	(Crystall. Granular).

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## **“Ichthyol”**

The German product equalled, if not excelled, by “ITTILOLO,” manufactured from the ichthyolitic shales of GIFFONI VALLEPIANA, has been brought to the notice of all medical men in this Country Italy, France and America.

Manufactured by the  
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4 ADRIA ROAD, DIDSBURY,  
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**QUININE ETHYL CARB.**  
**PHENACETIN B.P.**  
**ASPIRIN B.P.**  
**VANILLIN 100%**

**ON SPOT.**

F.O.B. and C.I.F. Prices Quoted.

*For all Fine and  
Heavy Chemicals.*

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# **A. & M. ZIMMERMANN, Ltd.**

(Established 1864)

**CHEMICALS, DRUGS, OILS  
AND ANILINE COLOURS.**

ACETANILID  
ACID BENZOIC  
ACID GALLIC  
ACID TANNIC  
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BROMIDES  
CHLORAL HYDRATE  
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From Russia to the whole world.

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Wormseed  
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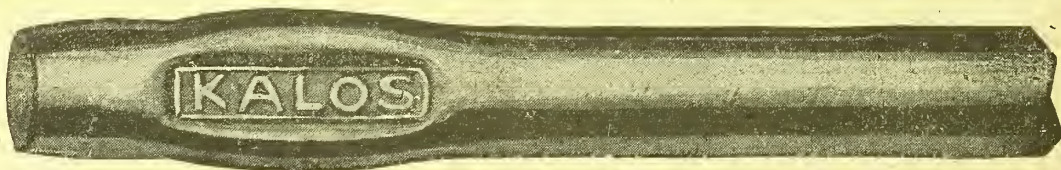
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21 MINCING LANE,

*DRUGS*

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*CHEMICALS*

LIQUORICE JUICE "KALOS" BRAND  
IS THE SUPREME QUALITY  
WITHOUT EXAGGERATED PRICE.



Cable Address:  
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# HAMASAKI & CO.

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**IMPORTERS & EXPORTERS  
DRUGS : CHEMICALS : OILS : Etc.**

*Largest Importers of Morphine, Heroin,  
Codein, Mercury, Alkali Salt, etc.*

European & American Manufacturers desirous of placing  
their goods in the Eastern Market would do well to  
communicate with us. Our outlet for goods is very large.

## C. Fr. MALMBERG

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Codes—Western Union;  
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Importers of Fine & Heavy  
Chemicals, Oils, Waxes, etc.,  
for Glassworks, Potteries,  
Leather and Textile Indus-  
tries, Soap and Chemical  
Manufacturers, the Mineral  
Water and Confectionery  
Industries and Retail  
Druggists.

*Offers solicited. Representation and sale  
of British products in this line wanted.*

British Firms dealing in Drugs,  
Medicines, Perfumery, wishing to  
do wholesale business in

## FRANCE

should not fail to consult Messrs.  
A. W. B. Scott, 38 Rue du Mont-  
Thabor, PARIS, a British Firm  
established over twenty years, doing  
the biggest business in English  
specialities in FRANCE, and  
known to every Chemist in that  
country.

Messrs. A. W. B. SCOTT do very consider-  
able advertising in the French Press. The  
Firm has four provincial and two Paris  
travellers—thus ensuring that any goods  
handled are constantly placed before the  
retail chemist.

Mr. A. W. B. SCOTT will stay at the SAVOY HOTEL,  
LONDON, from 1st to 15th October, for the  
purpose of getting into touch with any Firm  
interested. Interviews can be arranged from now  
onward.

A. W. B. SCOTT, Pharmacien-Droguiste,  
38 Rue du Mont-Thabor, PARIS.

**P.A.T.A. NOTICE.**

113 Temple Chambers, E.C. 4.

September 27, 1919.

The following revised prices are now in force:

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
7d. tab. (12-tab. bxs.) <b>Cleaver's</b>		
Terebene Toilet Soap ... 7d.		58/-
		gr. tabs. 14/6
1/9 x 3-tab. box " " ... 1/9		doz. bxs.
<b>Evans Sons Lescher &amp; Webb's</b>		
4 oz. "Lysol" Evans ... 1/-	8/-	} net
8 oz. " " " ... 1/9	14/-	
16 oz. " " " ... 3/-	24/-	
32 oz. " " " ... 5/-	40/-	
1/2 gall. " " " ... 7/-	5/3 each	
1" " " " ... 12/6	9/6	} net
1/6 <b>Hazol</b> Ointment (A. & H.) ... 1/6	13/6	
1/3 <b>Osy!</b> Tooth Paste (as from Oct. 1) ... 1/3	135/- grs.	

**INVITATION.**

The Council of the P.A.T.A. hereby heartily invite applications for membership from manufacturers of proprietary articles and from wholesale and retail vendors of the same. Whatever manufacturers' thoughts may have been in the past about the need for price-protection, none but the selfish can now maintain that better profits (assured) are not essential to the conduct of business. The cost of running pharmacies is now greatly increased, and it cannot be wondered at if retailers give the iciest of "cold shoulders" to proprietaries not on the P.A.T.A. Subscriptions (which run for 12 months from date of joining) are:

Manufacturers, £6 6s. ... Wholesalers, £10 10s.  
Retailers, 7s. 6d.

Crossed Cheques or P.O.O., payable to the Proprietary Articles Trade Association, to be sent to the Secretary, Sir WILLIAM GLYN-JONES, 113 Temple Chambers, E.C. 4.

**46 % Profit**

A good return of profit on a widely advertised article is assured to all Chemists who stock

**Chocoloids**  
**The Cure for Constipation**

Chocoloids are supplied to the retailer in two sizes—at 12/- and 24/- per dozen. With each dozen small size is given FREE two small tins, and with each half-dozen large size one large tin. Retail price 1/3 and 2/6 respectively.

**Chocoloids Advertising is National.**

Daily and weekly newspapers, weekly and monthly periodicals all carry Chocoloids advertising to the extent of over ten million copies per month. Chocoloids are already sold when you exhibit our showcard.

Send an order to-day. Show material supplied free.

**The Chocoloid Co.,**  
**Stirchley Laboratories - Birmingham.**

A1

Φ

**BEECHAM'S PILLS****WHOLESALE PRICES.****Beecham's Pills:**

1s. 3d. size	...	...	...	...	10s. 6d. per doz. net.
3s. 0d. "	...	...	...	...	26s. 6d. " "
5s. 0d. { new size	...	...	...	...	50s. 0d. " "
{ contains double the quantity of 3/- box.					

**Beecham's Cough Pills:**

1s. 3d. size	...	...	...	...	10s. 6d. " "
3s. 0d. "	...	...	...	...	26s. 6d. " "

Orders: Minimum quantity £5 value—approximately. | Packages FREE. Carriage PAID.

These Prices are the lowest no matter what quantity is ordered.

**TERMS: CASH WITH ORDER.**

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ltd., St. Helens."



**ÉTABLISSEMENTS CHATELAIN,**

2 &amp; 2 bis RUE DE VALENCIENNES, PARIS.

*Sole Manufacturers of***JUBOL****RE-EDUCATION OF THE  
INTESTINE.**Constipation, Enteritis, Hemorrhoids,  
Indigestion, Skin Blemishes, &c.

Price 5/- per box.

**GLOBÉOL****POWERFUL BLOOD TONIC.**Anæmia, Nervous Exhaustion, General  
Debility, Tuberculosis Convalescence,  
etc.

Price 5/- per bottle.

**PAGÉOL****POWERFUL URINARY  
ANTISEPTIC.**Cystitis, Prostatitis, Catarrh of the  
Bladder, Renal Tuberculosis, etc. etc.

Price 5/- and 1 1/- per box.

**JUBOLITOIRES****SCIENTIFIC SUPPOSITORIES**For Hemorrhoids, Rectitis, Anal Fistula, etc.  
Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

**URODONAL****POWERFUL URIC ACID  
SOLVENT.**Rheumatism, Gout, Arterio-sclerosis,  
Stones, Gravel, Sciatica, Neuralgia and  
all Uric Acid disorders.

Price 5/- and 12/- per bottle.

**VAMIANINE**New Scientific Preparation for Chronic  
Skin Affections, Psoriasis, Eczema,  
Acne, etc.

Price 1 1/- per bottle.

**SINUBÉBASE****SCIENTIFIC PREPARATION OF  
LACTIC FERMENTS.**Indicated in Intestinal Disorders,  
Dysentery, Diarrhoea, Dyspepsia, Enteritis,  
Typhoid, Skin Eruptions, etc., etc.

Price 5/- per bottle.

**FANDORINE**Metrorrhagia, Dysmenorrhœa and Lactation,  
Pains, etc. etc.

Price 5/- and 1 1/- per bottle.

**FILUDINE****SPECIFIC FOR THE LIVER.**Malaria, Diabetes, Cirrhosis, Sluggish  
Liver, Tuberculosis, etc.

Price 1 1/- per bottle.

*Heppells***BRITISH AND COLONIAL AGENTS—  
Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.**

Telegrams: "URODONAL LONDON." Telephone: Regent 192.

AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W.

INDIA (SUB-AGENTS): G. ATHERTON &amp; CO., 8 Clive Street, Calcutta.

Stocked by all Wholesalers.

Now being largely advertised.

*Never be without*

On the P.A.T.A.

The genuine remedy for

**ECZEMA, CUTS, BRUISES, SORES, BURNS,  
PILES, PIMPLES, BAD LEGS, SORES on  
HEAD, CHAPPED HANDS and ALL SKIN  
TROUBLES.***Liberal Terms to the Trade.*

Apply to your Wholesaler or to

**The "ZI-ZI" CO., Newmarket.**

Advertising matter free on request.

**THE CONQUEROR OF PAIN!****JABEZ WOLFFE'S****Channel Embrocation**The finest preparation for Rheumatism,  
Sciatica, Neuritis, Muscular Stiffness,  
Sprains, Cramp, Stings and Bites.*Should be stocked by every Chemist.*

Prices: 1/3, 3/-, 5/- per bottle.

Trade terms: 25% &amp; carriage paid on orders of £3 &amp; upwards.

**The Laboratory, 12 Hampton St.,  
BRIGHTON - SUSSEX - ENGLAND.***Agents required for certain areas.***'RAPIDLY INCREASING DEMAND FOR****"ODDS ON" OILS****Liniment for RHEUMATISM, SCIATICA, SPRAINS, &c:****WIDELY ADVERTISED. Retail Prices: 1/3, 3/- & 8/- bottles***Obtainable from all Distributing Chemists or direct.***The "ODDS ON" SPECIFICS CO., LD., 36-37 Cock Lane, LONDON, E.C.**

# D.D.D. Prescription

## FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%.

### TRADE PRICES.

D.D.D. Prescription 2/9 Lottle, M.R.P. Face Value, @ 25/6 per doz.  
" " 5/- " " " " 47/-  
In two strengths—Ordinary and Strong.

D.D.D. Soap ... 1/- tab. M.R.P. Face Value, @ 8/3 per doz.  
" Shaving Soap ... 1/6 stick " " 13/6  
" Vanishing Cream 2/6 jar " " 22/6  
" Shampoo Powders 2/6 box " " 22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

**D.D.D. Co., Ltd.**

3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C.4

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CERTAIN IN RESULTS  
and

CERTAIN IN SALES

## THE PUBLIC WANT IT

For strong advertising has taught them its merits, and practical experience has proven its claims. "KO-TAL-KO" is the strongest recommended hair preparation on the market, and this, in conjunction with my widespread publicity, is the best of all reasons why

## YOU SHOULD STOCK IT.

Apart from quick and ready sales my trade prices allow of a fair profit to you. "KO-TAL-KO" is always on the move, never cumber the shelves long, and is a business asset of the highest value for your repeat orders are always warranted.

## IT PROFITS EVERYONE.

"KO-TAL-KO" does justice to me, to you and to the public, and every Chemist and Druggist should order a supply.



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**J. Hart Brittain**

(Dept. C.D. 2), LTD.

2 PERCY ST., LONDON, W. 1.

RETAIL  
PRICE  
P.A.T.A.

5/- Size  
12/6 "

TRADE  
PRICE

48/- per  
doz.  
112/6 "

ALL CHEMISTS  
SHOULD STOCK

**ABDINE**

### THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 Years' Reputation.  
"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, 1 1/4 each; Boxes of 13 packets, 1/6.  
Wholesale Prices on application. Sample Box 1/6.  
D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH

# FUSEL OIL

FIRST-HAND SUPPLIES.

**DE GROOT BROTHERS,**  
Schiedam, Holland.

# LIQUID BARKOLA COMPOUND

Wholesale 26/- per doz.,  
less 10 & 5%. Retail 2/9 each.

Each bottle (1 oz.) carries instructions to the chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1 oz.; Tincture of  
Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.;  
Syrup of Ginger, 5 oz.

Chemists charge according to their own scale for dispensing

**THE BARKOLA CO., LTD.,**  
42 Great Dover St., LONDON, S.E. 1.

Proprietors of Barkola Alveo, Barkola Balm, &c. &c.

## NEW ENGLISH

# DANDELION ROOT

NOW READY, FRESH AND DRY.

Also

Colchicum Seed      Colchicum Corms  
Digitalis      Belladonna Root  
Doggrass      Sloes  
White Bryony Root, etc.

For prices and particulars apply—

**FLEMONS & SONS,**

Herb Merchants, DUNSTABLE.

# BESORBON

(Dr. Hill's Formula).

MEDICINAL SNUFF. ABSOLUTELY THE FINEST REMEDY FOR CATARRH AND COLD IN THE HEAD.

**RICHARD DICKESON & COMPANY** (Incorporated with REYNOLDS SONS & CO., LIMITED).  
57/59 CHARTERHOUSE STREET, LONDON, E.C.1



P.A.T.A. Revised Prices in effect SEPTEMBER 1, 1919.

# Antiphlogistine

TRADE MARK

Size.	M.R.P.	M.W.P.	Size.	M.R.P.	M.W.P.
7 oz.	2/6	22/6	34½ oz.	8/6	76/6
17½ „	5/-	45/-	5 lbs.	17/6	157/6

Prices for IRELAND, CHANNEL ISLANDS, and ISLE OF MAN.

Size.	M.R.P.	M.W.P.	Size.	M.R.P.	M.W.P.
7 oz.	2/-	16/6	34½ oz.	6/6	52/6
17½ „	4/-	33/-	5 lbs.	13/6	109/6

A Discount of 5% allowed off M.W.P.  
on orders of £2, cash with order.

CARRIAGE PAID ON ALL ORDERS.

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A HEALING CREAM



Ample Stocks always on hand.

P.A.T.A. PRICES.  
1/3 size ... 11/6 per dozen.  
2/6 „ ... 23/-

Less 5% on 6 doz. orders.  
SPECIAL TERMS for WINDOW  
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Over 10 million pots sold last year.

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sole rights was refused by the Board  
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Lorimer's are genuine, original,  
and the best obtainable.

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## NOSTROLINE

TRADE MARK REGD.

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NASAL SPECIFIC

### Look to your Stock!

Place orders without delay  
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Protected at face value, 1/3  
Price: 1 doz. 11/9, 3 doz. 33/9, 1 gross 135/-

Carriage Paid. Terms: Cash Net.



"NOSTROLINE"  
Prevents and Cures  
COLD IN THE HEAD,  
NASAL CATARRH,  
HAY FEVER ETC.  
Protects against Infection.

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CORRESPONDENCE  
INVITED

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Castor Oils, *Medicinal,  
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Linseed Oils,

*Best Raw,  
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Turpentine,  
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Substitutes,  
*Best Grades.*

*Samples and Prices on Application.*

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**PURE CASTOR OILS**

**RUBY  
GREEN  
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**BRILLIANTINE  
OILS**

Any Quantity—from Stock.  
Wholesale Only.

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prompt dispatch, best quality, and lowest prices.*

**"RAYOLENE" Ready Mixed PAINT.**

*Special Decorators' Quality.*

*Supplied in 1, 2, 4, 7 and 14-lb. tins.*

**"TEXALO," the Ideal WATER PAINT.**

*Twenty beautiful shades. In tins and bulk.*

**"FLINTEX" Dry Sanitary DISTEMPER.**

*In Powder form. Supplied in 3 and 6-lb. packets.*

**"GENIE," the Ideal Liquid SILVER POLISH**

**"RAYOLENE" BLACK JAPAN.**

*The best preparation for Cycles, Fire Ranges, Mail  
Carts, Gas Stoves, and all wood or ironwork.*

*In tins, to retail at 9d., 1/6 and 2/9.*

**"RAYOLENE" OIL VARNISH STAINS.**

*Far superior to methylated spirit preparations.*

**"RAYOLENE" HOUSEHOLD DYES.**

*For Silk, Wool, Cotton, or Mixed Goods.*

*In 3d. and 6d. packets.*

*Shade Cards, and prices of all above, free on application.*

**TEXALO MANUFACTURING CO.**

*PAINT & VARNISH MANUFACTURERS,  
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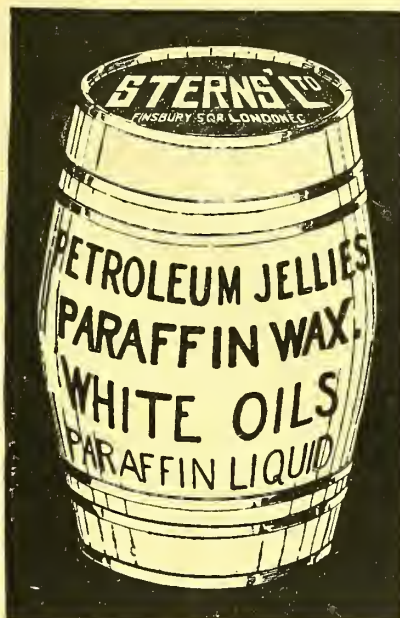
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*Sole European Representative*

The JAMES B. BERRY'S SONS CO. Inc.

110 CANNON STREET, LONDON, E.C. 4



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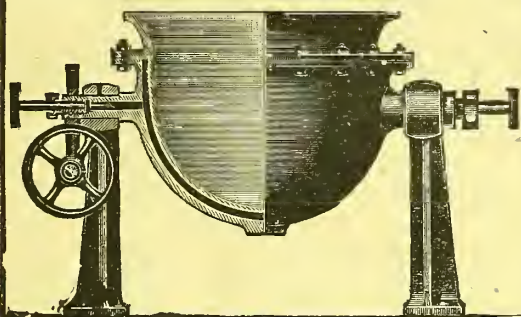
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(Two Words only.)

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Suitable for all Temperatures and Pressures.



**DANTO ROGEAT & CIE,**

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Suppliers before the War to the largest European  
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Write for Price List to Sole Representative:

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**OILS AND CHEMICALS.**

Buy from one of the Oldest Houses in the Trade.

Write for Prices. **ESTABLISHED 1794.**

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WE SOLICIT YOUR ENQUIRIES FOR:—

**OLIVE OILS**, finest cream edible B.P.  
**SALAD OILS**  
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**TURPENTINE**, American Spirits and Substitutes  
**CASTOR OILS**, all grades  
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**LUBRICATING OILS** of all descriptions

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THE  
**BRITISH WAX REFINING**  
 COMPANY, LIMITED.

**WHITE BEESWAX**  
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Slabs, Bars, Tablets or Discs

**CERESINE WAX**  
**Bleached Carnauba Wax**  
**Carnauba Wax Residues**

*All Waxes Refined, Bleached and Manufactured at our Works, REDHILL, SURREY.*

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IT CLEANS WHEN OTHERS FAIL.

**"CASSO"**

**Cleans immediately**, with NO exertion, Baths, Marble, Paint Work of every description, Brass, Silver, Tiles, Toilet Ware, Linoleums, Floors, Sinks, Kitchen Table Tops, &c. &c.

**Removes Grease** or Dirt from the Hands, and does not injure the Hands or Clothes.

**"CASSO" has no faults**, it does not deteriorate through keeping in stock, does not injure or scratch the finest enamel work.

**"CASSO"** is packed in 1-lb. Tins retailing at 1/-, and 2-lb. Tins retailing at 1/10. Money returned to any customer who is not satisfied.

**"CASSO"** shows a GOOD Profit to the Retailer.

Sole Manufacturers:

**The CASSON CHEMICAL**  
 CO., LTD.,

11 Craven Hill, London, W.2.

Phones: PADD. 321, 322 & 3518.





# If You Were Selling Motor Cars

And you had the agency for a low-priced car selling for £300; and you also had the agency for a higher-priced car selling for £1,200. For the sake of argument say that the turnover was the same on both; and also that you made  $33\frac{1}{3}\%$  profit on each.

Then on the £300 car you made £100; and on the £1,200 car you made £400.

In other words you made the same per cent. profit on each, but four times as much profit on one as you did on the other.

Is there any question which one you would rather sell?

Absolutely the same sound reasoning applies to Nujol. The 9oz. size is selling over the counter for 2/6; the new 20oz. size sells for 5/-.

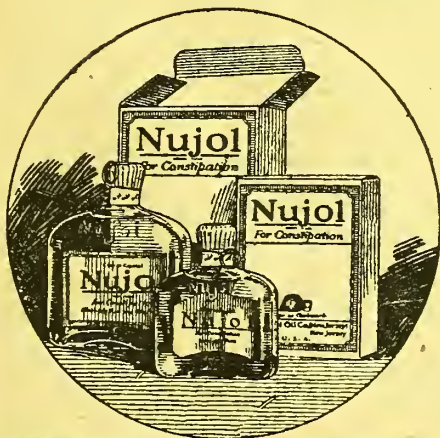
Practically everything else you have for sale on your shelves for constipation sells around 1/- to 1/6.

## The Profit on Nujol is better

If you take the trouble to work it out you will find the profit on Nujol is better than on the 1/- or 1/6 goods.

### Nujol Laboratories

STANDARD OIL COMPANY (New Jersey)  
NEW YORK U.S.A.



# Nujol

TRADE MARK

## FOR CONSTIPATION

If your wholesale house cannot supply you write to the sole Distributors for the United Kingdom:—

The Anglo-American Oil Co., Ltd., 36, Queen Anne's Gate,  
London, S.W.1.

For India: Muller & Phipps (India) Ltd., Bombay, Calcutta, Madras

# "GLACIALINE"

The Original and Most Effective Food Preservative

The only Food Preservative that has ever been publicly awarded Gold and Silver Medals and Certificates of Merit for Purity and Harmlessness.



Full directions for use enclosed in every package.

Packed in 6d. and 2/- Packets and 2/3 Canisters.

FAVOURABLE TRADE TERMS UPON APPLICATION TO THE

Sole Proprietors and Manufacturers:

**BURTON, BAKER & CO.**  
16 EASTCHEAP, E.C. 3.

Trade Mark.



Established  
134 Years.

## R. J. Fullwood & Bland

The OLDEST and LARGEST Firm of

### ANNATTO, RENNET

and BUTTER COLOUR Manufacturers in GREAT BRITAIN

**GERMANS** have never had any interest whatever in R. J. F. & B.'s firm, which has been carried on by British partners and with British capital since it was established in 1785. Others who claim to be the only makers of Rennet in England CANNOT SAY THIS.

R. J. F. & B. have secured large quantities of Calves' Stomachs, and are now open to book orders for any quantity of Rennet.

Sole Addresses:

31, 33 & 35 Bevis Marks St., Hoxton, London, N. 1  
and Rennet Works, Ellesmere, Salop.

## Recommend it for Convalescence



Doctors prescribe Turtle Soup in all cases where the patient cannot retain any other nutriment.

### FREEMAN'S REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

The trade terms are particularly favourable, and particulars can be obtained by writing to

The Watford Mfg. Co. Ltd.  
Beletaland, WATFORD

*Freeman's*  
FOOD PRODUCTS  
Watford  
S.A.A.

# EXTRACT OF MEAT

(IN BULK).

## DIRECT IMPORTER

FROM

AUSTRALIA, ARGENTINA, BRAZIL,  
URUGUAY, &c.

IN VARIOUS QUALITIES.

*I invite your Inquiries.*

## C. J. PIGGOTT,

PRODUCE IMPORTER,

19 EASTCHEAP, LONDON, E.C. 3.



*FOR INFANT FEEDING AND HOUSEHOLD USE*

# HOOKER'S DRIED MILK

(Full Cream)

Manufactured in Buckinghamshire under the most hygienic conditions. Containing all the ingredients of rich cows' milk in powder form. Well preserved and easily reconstituted.

**HIGHEST QUALITY OBTAINABLE.**

Good profit to Retailer.

PRICES AND TERMS FROM—

## THEW, HOOKER & GILBEY, LTD.

*Manufacturers of Milk Products, BUCKINGHAM.*



## MALT & COD LIVER OIL

Prepared only from the finest East-Coast Barley, Combined with the best Norwegian Non-Freezing Cod Liver Oil.

*Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lbs. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 gross and upwards.*

TELEPHONES:  
Nitsbill—Pollokshaws 14  
London—Avenue 5661  
(3 lines).

## PERRY & HOPE, Ltd.

TELEGRAMS:  
"Perryope, Nitsbill."  
"Perryope, Led. London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.

# P.A.T.A. CURACEA REGD.

## LIQUID NERVE TONIC

11/- per doz.—	SELLS AT	1/3 ea.	} Orders Executed per Return.
24/- " " " "		2/9 "	
45/- " " " "		5/- "	

2½% discount on 45/- parcels, cash with order. Attractive showcards and counter bills.  
CURACEA CO., ELM GROVE, LONDON, S.E. 15.

# Osmos

## The Great British Aperient Water

Osmos is the only water known to be identical in composition and osmotic properties with the alien water Hunyadi Janos.

Osmos is highly recommended by the Medical Profession.

Osmos is steadily advertised in the Press.

Osmos is on the P.A.T.A. list and yields a fair profit.

*Terms on Application.*

Osmos, Crown Wharf, Hayes, Middlesex

## GOLD SEAL BLOOD WINE

(Vin Ferri Citratis, B.P.)

A really valuable tonic, pleasing to the palate. Can be sold by all registered Chemists, (with or without Wine License) at any time of the day; Licensed Grocers and Wine Merchants can only sell during the hours permitted for the sale of Wines.

42/- per doz. bottles.      Retail 4/6  
23/- " " " "      " 2/6

**HAWORTH & AIREY,**  
Wine Shippers, BURY, LANCS.

## LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants,  
Manufacturing Chemists

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
* LOSALL'S SALT (well advertised), tins	10d.	7/-
* " " " " " "	1/7	13/6
* " " " " " " bottles in " " " " " " cartons	2/-	18/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

**LOSALL'S COMPOUND SULPHUR SOAP.**

A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box at 9d. each tablet.	Box.	Doz.
	2/3	21/-



# BRAND'S ESSENCES OF BEEF, MUTTON and CHICKEN

possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach. Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

**BRAND & Co., Ltd., MAYFAIR WORKS, VAUXHALL, LONDON, S.W.**



**LIQ. SANTAL FLAV.  
C. BUCHU et CUBEBA**

(Hewlett's)

Packed for dispensing only,  
in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

*The Practitioner.*

**VIROPHOS**

Of proved utility in Nervous Diseases,  
and a powerful Restorative for the  
Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

WHOLESALE PRICES.

No. 1.	1½ oz. Tin	9/- per doz.
" 2.	3½ " "	14/6 "
" 3.	6½ " "	24/- "
" 4.	12 " "	42/- "

**MIST. PEPSINÆ CO.  
C. BISMUTHO**

(Hewlett's)

Packed for dispensing only,  
in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

*British Medical Journal*



Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., London, E.C. 2.

## Do You Sell Sister Lauras Food?



The question is often asked nowadays.  
The Chemist who does not stock Sister  
Lauras Food is missing a good line.

Sister Lauras Food is achieving great  
success as a preparation for weakly  
babes and for invalids and the aged.

It makes milk digestible and is invaluable  
in cases of malnutrition.

It is a thoroughly reliable line and one  
that brings a handsome return.

Price 1/- & 2/6 per tin. Samples and advertising matter free on application.  
**SISTER LAURAS INFANT FOOD CO., Ltd., 156 Vincent Street, GLASGOW.**

CHELTINE FOODS CO., CHELTENHAM.

## DIABETES

FLOUR, BREAD, BISCUITS, FOOD, RUSKS, COCOA, Etc.  
Also Foods for Anæmic, Dyspeptic, Invalid and Aged People  
and Infants. Highly recommended by Medical Profession.

INFANTS' FOODS packed under Chemists' "OWN NAMES."  
*Terms and all particulars on request.*

## COLONIAL ICE CREAM POWDER

131/- cwt. F.O.B.

Custard }  
Egg } Powders { in large  
Baking } { 1½d. Packets.  
12/- per Gross. (c.w.o.)

From:  
**Geo. J. Taylor & Co., Ltd., Manufacturing Druggists,  
384 London Road, SHEFFIELD.**

## THE MOST ECONOMICAL INFANTS' FOOD.



ON P.A.T.A. LIST.

SHOWCARDS FREE.

**FRAME FOOD CO., Standen Road, Southfields, London.**





# POST YOUR ORDER TO-DAY

enclosing **15/10**, and get the benefit of the Bonus Offer for 3-doz. Harley's Three Salts, which closes on September 30. If your order is received by us on Wednesday by first post you will receive bonus terms—namely, **3 dozen** (carriage paid order) **sent for the price of 2½ doz.** Harley's Three Salts retails at **9½d.**, and are the surest solvent for Uric Acid.

SHOWCARDS.

A SATISFACTORY SELLER.

SOLE MAKER—

**HARLEY,** MANUFACTURING CHEMIST, **PERTH, Scotland.**

**BONUS OFFER YIELDS 60% PROFIT.**

## "Prana" SPARKLETS

"B" & "C" Bulbs  
can now be sent  
promptly on receipt  
of order.

"C" Bulbs may be used  
instead of "D" Bulbs without  
any alteration to the Syphon.

PRICES.	Trade doz. boxes	Retail (P.A.T.A.) each
"C" Bulbs (box of 12) ...	33/-	3/6
"B" Bulbs " " ...	22/-	2/4

Aerators, Ltd., Edmonton, N. 18

From the  
Heart  
of the  
Malvern  
Hills.

### BURROW'S MALVERN TABLE WATERS

—STILL AND SPARKLING—  
have long been known as the purest  
and softest waters obtainable. Their  
source—the St. Ann's Spring  
Malvern—is situated high up on the  
side of the Worcestershire Beacon,  
at a height of 820 feet above sea level,  
and free from all possible cause of  
contamination.

Full Particulars and Trade Terms from  
W. & J. Burrow, Ltd., The Springs Malvern.  
Temporary London Offices: 5 Norfolk New,  
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Phone: Pad. 1810.





## Saint-Raphael

**Tonic, Restorative,  
Digestive Wine.**

**Known throughout the World,  
and prescribed in all cases of  
ANÆMIA, DEBILITY, and CON-  
VALESCENCE, to Young Women,  
Children and the Aged.**

**DOSE:** One Wine-glass after the  
two principal Meals.

Recommended by—  
PROF. BOUCHARDAT, Professor of Hy-  
giene, Paris Faculty of Medicine.  
DR. MACNAUGHTON JONES, London,  
England.

"For more than thirty years St. Raphaël Wine has been  
exclusively prescribed, with success, in the Paris hospitals  
as a pure tonic, by eminent physicians, such as Magendie,  
Rostan, Chennel, Velpeau, Requin, Monneret, Trousseau,  
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June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies  
nursing their own children; it is preferable to stout, which  
creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where  
it is necessary to give tone to the system, without effort  
or shock."—DR. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome,  
FRANCE.

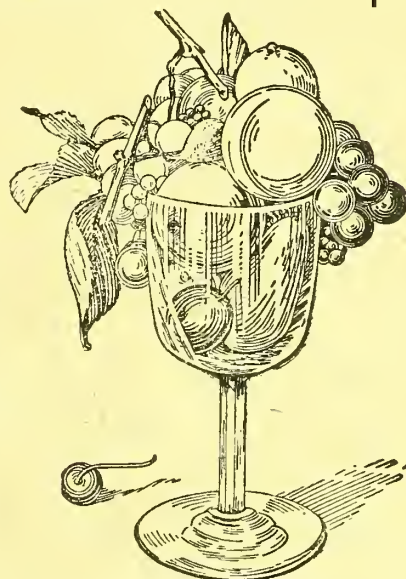
**To be obtained from all  
Wholesale Druggists,**

## DO YOU STOCK FORT-REVIVER

**The Great All-British Non-  
Alcoholic Tonic Stimulant?**

If not, you are missing the best selling article  
on the market. **FORT-REVIVER** will bring  
you custom. Here are its selling points:

Fort-Reviver is composed of the finest  
concentrated fruit juices re-inforced with  
such valuable nerve foods as **Glycero-  
Phosphates and Organic Phos-  
phates of the Nuclein Group.**  
Fort-Reviver is strongly recommended by  
the Medical Profession in convalescence.  
Fort-Reviver is free from noxious drugs  
and alcohol, and is not liable to any  
licensing restrictions.



**THE  
TONIC  
WITH A  
Doctor's  
Guarantee**

LUSCIOUS, FRESH, AND BRITISH.

The well-known author of "Diet and the  
Maximum Duration of Life," writes—

"The physician hesitates to prescribe  
medicated wines because of the danger,  
especially to nervous patients, of setting up  
the alcohol habit, or, what is worse, the  
craving for drugs, with which certain Tonics  
are 'fortified.' It is a pleasure, therefore, to  
commend a tonic Liqueur like Fort-Reviver  
which is free from alcohol and contains no  
noxious medicament."

Write for particulars of our  
**SPECIAL WINDOW-SHOW BONUS.**

**Wholesale Price to the Trade only.**

**50/-** per case, LARGE size bottles.  
**36/-** " " SMALLER "

**Minimum Retail Price.**

**5/6** LARGE size bottle.  
**3/9** SMALLER "

For full particulars apply to

**H. & C. NEWMAN**  
LONDON OFFICE: 41-42 Upper Rathbone Place, W. 1.



## WINOX Wine Food

is a high-class Pharma-  
ceutical preparation  
containing all the food  
elements of Wine,  
Meat, Malt and Un-  
fermented Grape Juice

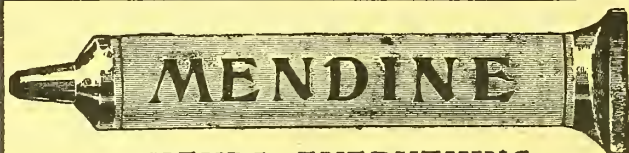
(Wine Licence Required)

Unsurpassable for In-  
fluenza; invaluable for  
Anæmia, Lassitude, Neu-  
ralgia, Nerve and kindred  
troubles.

Winox will stand any  
climate, and contains no  
harmful drugs.

Price 5/6 per bottle retail.  
Chemists who do not already  
stock Winox should apply  
for price to WINOX LTD.,  
Richmond, Surrey.





MENDS EVERYTHING.

**A PERFECT Liquid Glue CEMENT**

Made from the finest materials obtainable. Guaranteed to retain its efficiency for **Six Years**. In 2d., 3d., 5d., & 7d. Tubes. Boxed in dozens. Also in Bulk for Carpentry, Joinery and Aeronautical Works, etc. 1-lb., 1-lb., 14-lb., and 28-lb. Tins.

Indent through Merchant Shippers. Export Cases at Cost, f.o.b. London.

**MENDINE CO.** 8 ARTHUR ST., LONDON BRIDGE, E.C. 4. (1)

**FREDK. FINK & CO.,**

10 &amp; 11 MINCING LANE, LONDON, E.C.

**SPECIALITIES.**—Gums Arabic and Tragacanth as imported or finely powdered.

**SHADEINE**  
FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses

Trial size 3/4, per post 10/4. Medium, 1/4, per post 1/7; Large, 3/6, per post 4/-  
8d. size, 6/- doz.; 1 1/4 size 12/- doz. 3/6 size, 33/- doz.

**THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.**

For GUARANTEED

**ATOMIZERS and SPRAYS**

**THE DEVILBISS Co., LIMITED,**  
71 NEWMAN STREET, LONDON, W.1.

Precipitated Chalk, Hyposulphite of Soda, Sulphite of Soda, Glauber Salts, Epsom Salts, Salts of Tartar, Alum, Sulphite of Lime, Sulphide of Sodium.

**E. BRAMWELL & SON, Ltd., ST. HELENS, Lancs.**

**TINORI**

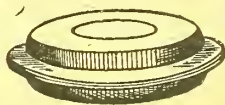
Painless Corn Cure. From all Wholesalers.

**"BRILLIANIA"**

The World-famed Enamel for Grey & Faded Hair. Absolute, safe and natural.

3/6 size, 37/- doz.; 6/6 size, 68/- doz.;  
12/6 size, 132/- doz.

Largely Advertised. Ask your Wholesaler.  
**THE BRILLIANIA CO., 37 Sloane Street, S.W. 1.**

**CACHETS**

**WEPS**  
The Best Quality.

**WEST-END PHARMACY SUPPLY**  
(R. Rios)

33 St. Mary-at-Hill, London, E.C. 3

Cachets. All sizes, plain and embossed. Orders accepted for coloured & printed

**BLENOSAN CAPSULES**

(Kava-Kava & Santal Compound).

Medicinal Capsules, Fine Chemicals.

**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense

APPLY TO

**AUG. LEVERMORE & CO. Ltd.,** 8-10 Ct. St. Helen's, LONDON, E.C.

Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central

**CACHETS "FINOT"**

(White or Coloured).

With inscriptions in any desired tint: also Plain or Embossed.

"A distinction all their own."—C. & D.  
Perfection of Cachets.—ancient.

These Cachets are especially adapted for Headache, Neuralgia and other powders.

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In 17 Sizes, to fit the various types of Cachet Machines

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**J. W. PINDAR & CO. Druggists' Engineers.**  
**PILL MACHINERY (Hand & Power).**

Hand Pill Machines (for Chemists), Tablet Sugar Coaters (with Hot-Air Blowers), Pill Coaters, Counters with Shoot, Tincture Presses, Emulsifying and Mixing Machines, Perculators, Ointment Mills, Drug Mills, "Eternite" Ovens, &c.

Other Machinery for Manufacturing Druggists and Chemists.

**BROCKLEY, LONDON, S.E.** Telephone: New Cross 1068.

**CRISTALINE (ANTISEPTIC) SHAVING Blocks**

Loose or Boxed, HOME & EXPORT, WHOLESALE ONLY.

SOLE MANUFACTURERS OF THESE BLOCKS IN THIS COUNTRY.

**THE NOTTINGHAM PERFUMERY Co., 27 Goose Gate, Nottingham.**  
Factory—1, 3, 5 Holland Street.

**PUFFS of ALL KINDS in DOWN and WOOL.**  
**SOLID FACE POWDERS**

COMPLETE WITH PUFFS.

Inquiries invited by makers.

**F. SCHUTZE & CO., Ltd.,**  
**BLACK BULL WORKS,**  
Caledonian Market, LONDON, N.7.

PER DOZ. **4. Quin Quenna 6** P.A.T.A. EACH

Best Hair Grower and Waver known, thousands say so and our ads tell customers, chemists can supply. Have you yours on show?

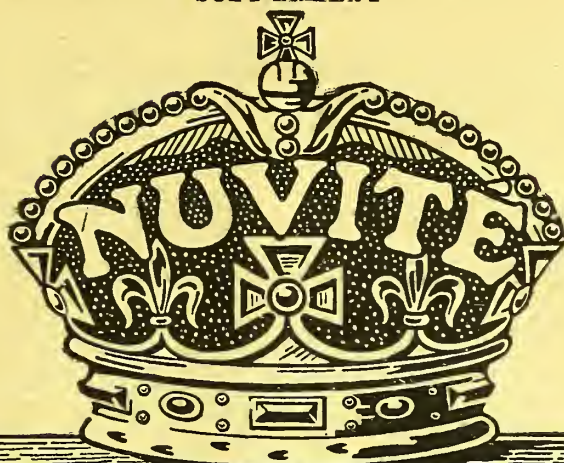
Will send at once 6 dozen with 1 dozen Bonus and window material Carriage Paid.

**43%**

Any number of chemists sell 1 gross a month and you can do the same  
**CHRISTY'S**  
Old Swan Lane, E.C. 4.



Supplied to the  
**RED CROSS SOCIETY**  
for  
Naval and Military Hospitals.



Supplied to the  
**HOUSE OF COMMONS**  
and  
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AS SUPPLIED TO OUR SICK & WOUNDED  
BY COMMAND OF H.M. QUEEN ALEXANDRA.

## NUVITÉ IS

The ideal tonic FOOD.  
Free from any injurious drugs.  
A scientific product.

## NUVITÉ

Feeds, as digested food feeds.  
Actually accomplishes all that it  
claims—no more, no less.  
Gives immediate benefit, and the  
result is lasting.

## NUVITÉ (Non-Alcoholic)

Is the greatest temperance  
beverage of the century —  
satisfying and thirst-quench-  
ing to a remarkable degree.

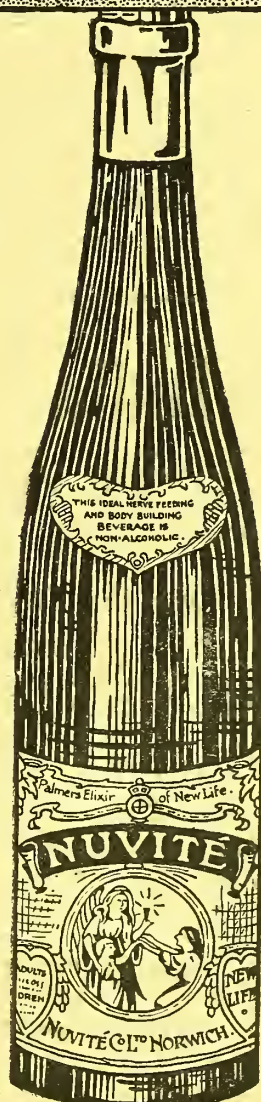
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**NUVITÉ CO. Ltd.**  
**NORWICH.**

London Offices: 133a CHARING CROSS RD., W.C.2.  
Wholesale Distributing Agents: Ingram & Royle, Ltd.,  
Bangor Wharf, 43 Belvedere Road, S.E.1.



ALCOHOLIC  
(GOLD LABEL)



NON-ALCOHOLIC  
(SILVER LABEL)

# BEST & CHEAPEST on the Market

## India-rubber Hot Water Bottles.

BRITISH MANUFACTURE.

### "DALTON," Grey Rubber.

8×6	10×6	10×8	12×8	12×10	14×12	16×10
3/9	4/3	4/11	5/4	6/4	8/4	8/4 each

### "PRIORY," Grey Rubber (Superior Quality).

8×6	10×6	10×8	12×8	12×10	14×12	16×10
4/-	4/7	5/3	5/9	6/9	8/11	8/11 each

### HOT WATER BOTTLE COVERS. Plushette.

SUPERIOR QUALITY. RED OR GREY.

These preserve the life of a bottle, and one should be sold with every bottle.

Prices: 17/6 20/6 25/6 28/6 35/- 43/- 43/- dozen.

5% Discount.



Southall Bros. & Barclay, Ltd., Birmingham.

## India Rubber Corks & Tubing

*For the Chemical Trade.*

SUPPLIED IN

ALL SIZES AND QUALITIES

**GREY or RED.**

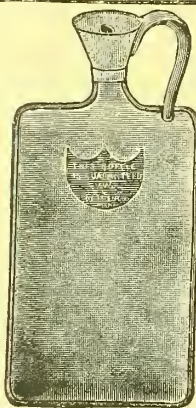
*Your inquiries solicited, upon receipt of which samples and prices will be submitted.*

**GARDEN CITY RUBBER CO.**

LETCWORTH, Herts.

Telephone:  
Letchworth 54.

Telegrams:  
"Rubber Letchworth."



VINCENT WOOD'S  
(GOLD MEDAL)

Hot Water Bottles  
and Covers

BRITISH MAKE

BELTS TRUSSES  
SUSPENSORIES  
& Surgical Appliances

LOWEST CURRENT RATES

Victoria House, 91 & 93  
Newington Causeway,  
London, S.E. 1.

TO PLEASE YOUR  
CUSTOMERS, STOCK

**Overton's  
Foot-Balm**

A REAL Foot Remedy  
with a big Profit.

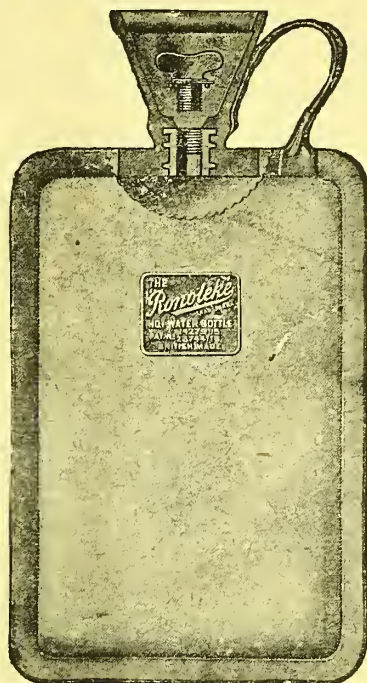
**R. H. ALLEN & CO.**

Manufacturing Chemists,  
122/124 Wells Road, Sydenham,  
LONDON, S.E. 26.





# Don't be "Too Late" for the Winter Trade Order your Supply of "Ronoleke" Bottles now



The demand for the "Ronoleke" Hot Water Bottle, now that the makers are free to concentrate on its manufacture, is enormous.

They can definitely promise prompt supplies to Chemists who apply through their Wholesale House NOW.

Later on—it will be a different matter—as no other Bottle sells so freely. The fact that the "Ronoleke" is guaranteed unbreakable gives it the preference and makes it first choice with discerning Chemists.

## Prices of the "Ronoleke" Hot Water Bottles

*Protected on the P.A.T.A. List.*

Size	Minimum Wholesale Prices to Retailers				Minimum Retail Prices to Public			
6" x 8"	...	...	...	...	4/6	...	...	6/9
6" x 10"	...	...	...	...	4/10	...	...	7/3
7" x 10"	...	...	...	...	5/-	...	...	7/6
6" x 12"	...	...	...	...	5/2	...	...	7/9
8" x 10"	...	...	...	...	5/6	...	...	8/3
7" x 12"	...	...	...	...	5/8	...	...	8/6
6" x 14"	...	...	...	...	5/8	...	...	8/6
8" x 12"	...	...	...	...	6/2	...	...	9/3
9" x 12"	...	...	...	...	6/7	...	...	9/11
8" x 14"	...	...	...	...	6/8	...	...	10/-
10" x 12"	...	...	...	...	7/-	...	...	10/6
10" x 14"	...	...	...	...	7/11	...	...	11/11
10" x 16"	...	...	...	...	8/6	...	...	12/9
12" x 16"	...	...	...	...	9/2	...	...	13/9

*Apply for your Supply through your Wholesale House.*



**A SEASON'S NOVELTY**  
with a Ready Sale.



**Torpedo Muff Warmer**

Pure Black Rubber doz. 27/-  
Do., in Musquash Covers „ 78/-  
or "Sammy" Covers „ 54/-

Order now, for the coming demand, from  
the Manufacturers

**F. SCHUTZE & CO., LTD.**  
Black Bull Works, Caledonian Market, N.7

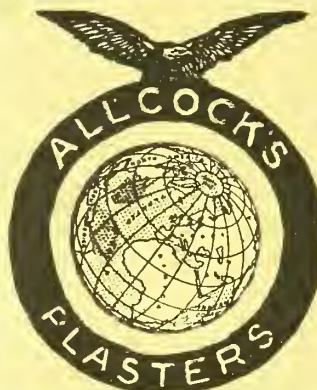
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**Allcock's  
PLASTERS**

A REMEDY OF 70 YEARS' STANDING.

**Allcock's Plasters  
Allcock's Corn and  
Bunion Plasters  
Brandreth's Pills**

*The  
Three  
Reliables.*



Prices and Terms  
on  
application to


**ALLCOCK -  
MANUFACTURING  
COMPANY -**  
22, Hamilton Sq.,  
Birkenhead,  
England.

"Sold all round the World."

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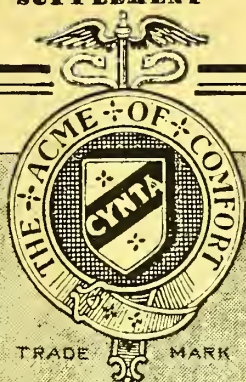
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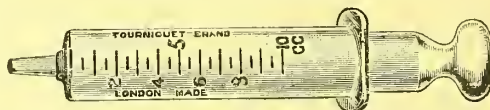
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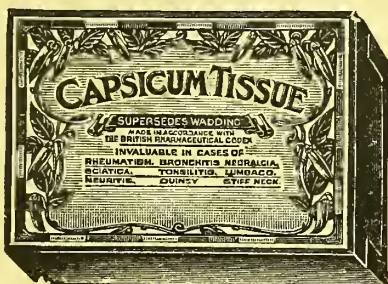
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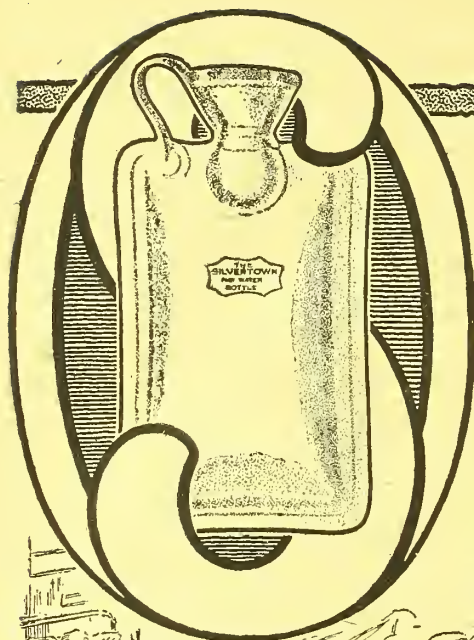
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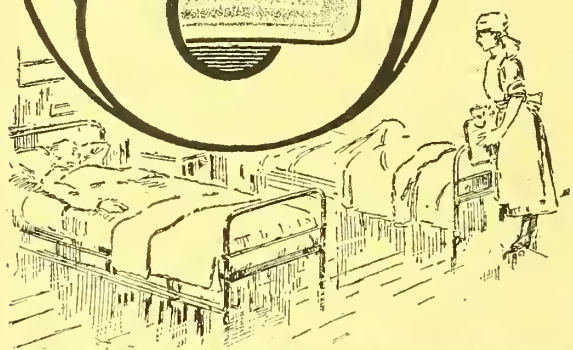
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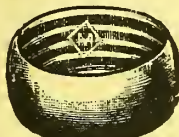
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" 1502 ...	9 0	6 3	" 1502 ...	13 0	9 6	" 1502 ...	21 0	15 0
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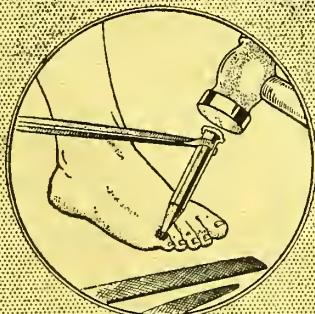
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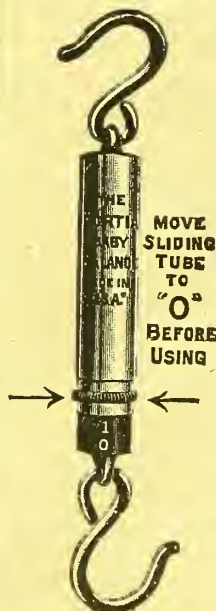
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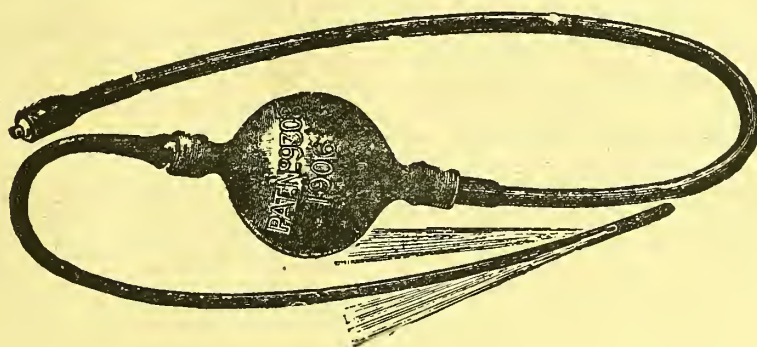
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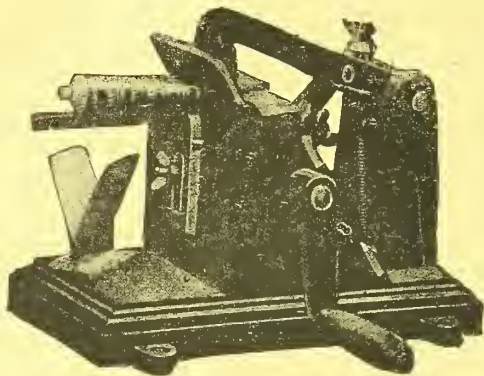
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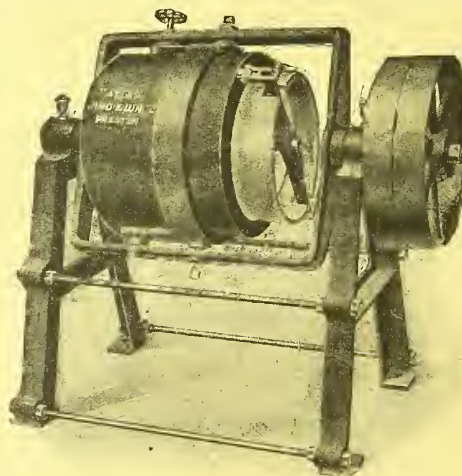
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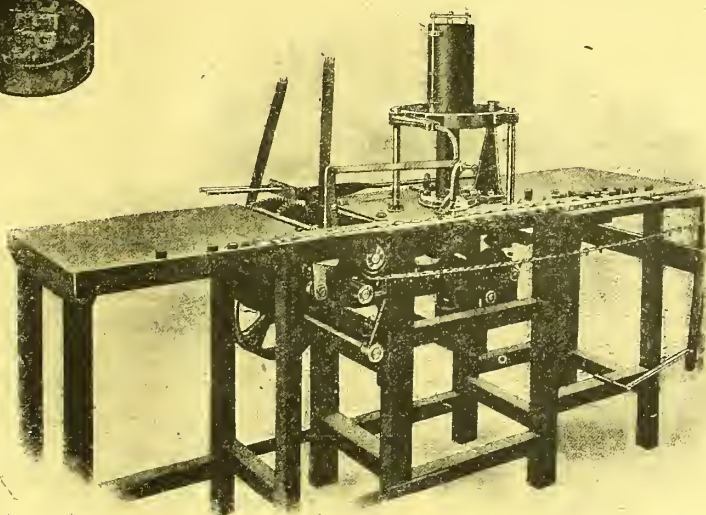
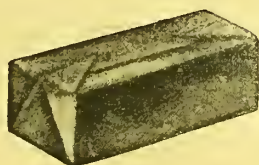
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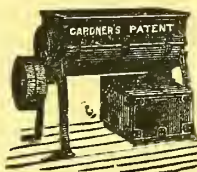
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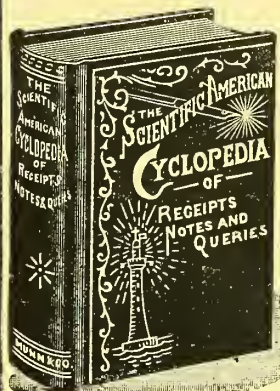
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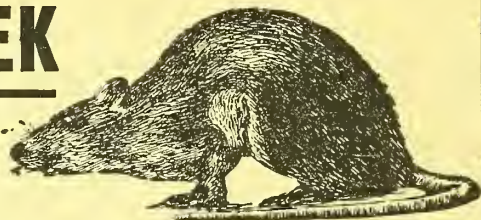
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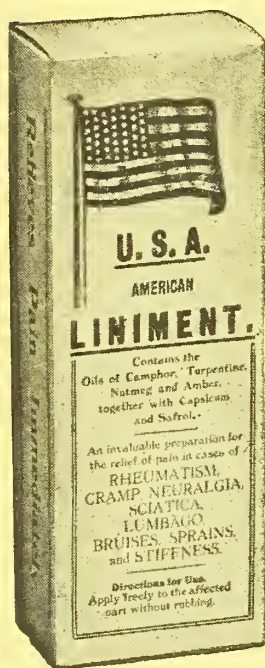
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42 CANNON ST.  
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SEPTEMBER 27, 1919

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## PRIVATE TREATY.

To be Immediately Disposed of by  
PRIVATE TREATY.

All the  
SHOP and STORE STOCK  
now lying in the Shop and Store-room at  
FORE STREET, REDRUTH, CORNWALL.

**SAMUEL ARTHUR** invites Tenders for the above (now retiring from the Retail), which he has successfully carried on for fourteen years.

The Stock consists of the usual Chemist's Stores, in good condition. Also the complete Fittings, Utensils, etc., which are modern, comprising Counters, Nests of Drawers, Safe, Dispensing Screen, Shop Rounds, etc., etc.

For further particulars apply at the above address. All applications replied to.

## FOR SALE.

4s. 6d. for 50 words or less : 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

**CORVUSINE**, three drums No. 2, three No. 3, one No. 4; pre-war prices; part or whole. Fry, Chemist, Buntingford.

**FOR** Sale.—One Ironac Jacketed Pan; capacity 40 gallons; never used; immediately available. Clement & Johnson, 19 Sicilian Avenue, W.C. 1.

## PARTNERSHIPS.

**ADVERTISER** seeks Partnership in good-class established business, within easy distance of London; living accommodation essential; must bear strict investigation; cash available about £500. Full particulars to 86/25, Office of this Paper.

**PARTNERSHIP.**—Gentleman, age 30, requires working partnership in good-class business; exceptional all-round knowledge of the trade, with unique experience in Photography; can Extract also; capital available £250. "Ruski," 11 Merton Road, Watford.

**PARTNERSHIP.**—Unqualified, 10 years' good experience, desires working interest in sound business; capital available. Apply 86/38, Office of this Paper.

## APPRENTICESHIPS.

**MR. BROWN** has a vacancy for educated youth as Apprentice. 186 Mare Street, Hackney, N.E.

**YOUTH** (17), passed Preliminary, has knowledge of French, Latin, and German (distinction London University), requires position immediately as Apprentice in first-class Pharmacy; West-End preferred. Please apply to "B," 75 Burnt Ash Hill, Lee, S.E. 12.

## SITUATIONS OPEN.

4s. 6d. for 50 words or less : 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

## RETAIL.

**BIRMINGHAM.**—For high-class Dispensing business, Junior or Improver (male); state salary required. Apply 88/20, Office of this Paper.

**BOURNEMOUTH.**—Junior Assistant for Light Retail; outdoors; hours 9 to 7; Pharmacy classes at the local Municipal College. Apply, stating age, experience, and salary required, to J. K. Matterson, 12 The Arcade, Bournemouth.

**BRECON.**—Competent Assistant wanted, accustomed to good Retail, Dispensing, and Photographic business (outdoors); state full particulars in first letter, photo. Gwillim, Chemist, Brecon.



**B**RISTOL.—Junior Assistant wanted for Dispensing, Photographic, and quick Retail business; outdoors; modern hours. Apply, stating age, height, salary required, with references and photo (if possible), to F. Moss, 206 Redland Road, Bristol.

**B**RISTOL.—Wanted, qualified Manager for brisk Cash business, with N.H.I.; easy hours; no Sunday duty. State age, height, married or single, salary (rooms over shop optional), and all particulars, to Godfrey, 244 North Street, Bedminster, Bristol.

**C**ARDIFF.—Assistant wanted, unqualified, with good experience; Wednesdays close 1 o'clock; no Sunday duty; one hour each to dinner and tea; applicants will please enclose two references, salary required, and usual particulars. Frank Edwards, 192 Cowbridge Road, Cardiff.

### COVENTRY AND WARWICKSHIRE HOSPITAL.

Dispenser (lady or gentleman) wanted, holding M.P.S. or A.P.S. qualification; duties to commence in November. The candidate appointed will be required to live out; lunch and tea will be provided by the Hospital on week days.

Applications, stating age, experience, qualifications, and salary required, and enclosing copies of recent testimonials, to be sent in addressed to the Secretary, on or before Thursday, 9th October, 1919.

**D**ARLINGTON.—Senior Assistant required; age about 35; ab-stainer preferred. Apply, stating age, height, experience, if knowledge of Photography, and salary required, Waters, Chemist, Darlington.

**D**ONCASTER.—Assistant (unqualified) required, immediately, for General Family and Dispensing business conducted on progressive lines. Applicants must be well recommended and have had good experience, and should apply, stating age, height, experience, salary required (outdoors), and enclosing photo if possible, to M. H. Stiles & Son, The Rexall Pharmacy, Doncaster.

**E**ASTBOURNE.—Junior Assistant wanted for Dispensing and occasional Counter work; hours 8.30 to 7, Saturdays 8 p.m. Apply, stating salary required (outdoors), age, references, and enclose photo (to be returned), Froeter, 5 Station Parade, Eastbourne.

**G**LOUCESTER.—Assistant required; three kept; outdoors; good-class Dispensing and Light Retail; easy hours. State full particulars, with salary and photo, to Ward & Woodman, Gloucester.

**H**EXHAM.—Junior Assistant, outdoors; give full particulars of age, height, salary, and experience. Bell & Riddle.

**K**ENSINGTON, W. 8.—Required (immediately), a Junior Assistant (male); unqualified. Apply, with full particulars, age, height, experience, and salary required (outdoors), also when at liberty, to John F. Harrington, 15 Kensington High Street.

**L**ONDON (Central).—Outdoors; Junior wanted; no holiday, Sunday, or late duty. Apply, with full particulars of experience, salary wanted, etc., to W. Hairsine, 52 Wardour Street, W. 1.

**L**ONDON (Central).—Outdoors; Junior wanted; no holiday, Sunday, or late duty. Apply, with full particulars of experience, salary wanted, etc., to Martin & Co., 164 Charing Cross Road, W.C. 2 (Oxford Street end).

**L**ONDON, E.—Qualified Manager. Apply W. Shadforth, Pharmaceutical Chemist, 63 Grove Road, Bow, E. 3.

**L**ONDON, N.—Wanted, capable Junior Assistant for Light Retail and Dispensing business. Apply, with full particulars, stating salary required (outdoors), J. H. Frost, Pharmacist, 9 High Street, Hornsey, N. 8.

**L**ONDON, N.—Junior or Improver; outdoors; personal application preferred, or write full particulars. Honiatt, Pharmacist, 35 Junction Road, N. 19.

**L**ONDON, N.W.—Unqualified Assistant for high-class Dispensing Business; must be capable Dispenser and good Counterman. P. B. P., 68 Foyle Road, Blackheath, S.E. 3.

**L**ONDON, N.W.—Competent Junior in good-class Dispensing and Retail. Apply W. Brown, 1 King's College Road, Hampstead, N.W. 3.

**L**ONDON, S.E.—Wanted (immediately), Senior Assistant for Dispensing and Counter; outdoors; reasonable hours; no Bank Holiday duty. Apply, giving usual particulars and salary required, to J. Milner, 209 Trafalgar Road, Greenwich, S.E. 10.

**L**ONDON, S.E.—Pharmacist required for Photographic and Dispensing business; outdoors. Apply to A. Goldthorpe, M.P.S., 111-113 High Street, Plumstead, S.E. 18.

**L**ONDON, S.W.—Unqualified Assistant or Junior wanted; state full particulars, references, age, married or single, salary required, photo if convenient. "Brixton" (84/27), Office of this Paper.

**L**ONDON, S.W.—Good all-round Assistant wanted for Retail and Dispensing business. Apply, with full particulars, to Lloyd, 267 King's Road, Chelsea, S.W. 3.

**L**ONDON, S.W.—Smart, unqualified Assistant wanted at once, for good-class business; must be quick and accurate. Apply 88/10, Office of this Paper.

**L**ONDON, S.W.—Unqualified Assistant wanted (at once), male or female, for rather busy working-class business; quick, obliging server; little N.H.I. Dispensing. Apply, with usual particulars, references, and salary required (outdoors), to 87/26, Office of this Paper.

**L**ONDON, W.—An Assistant, about 23 to 25, outdoors; accustomed to good-class Dispensing and Family Retail, with a knowledge of Photography preferred; no N.H.I. work. State full particulars as to age, experience, salary, and references, to H. Dixon, 1 Russell Gardens, Kensington, W. 14.

**L**ONDON, W.—Wanted, Junior Assistant (male), with good Dispensing experience; outdoors. Apply, with full particulars, stating salary required, to Gould & Co., 23 North Audley Street, W. 1.

**L**ONDON, W.—A good Junior Assistant (male); full time; reasonable hours. Apply W. F. Pasmore, 320 Regent Street, W. 1 (opposite the Polytechnic).

**L**ONDON, W.—Required, an experienced young lady for the Perfumery Counter; must be a good Sales-woman and accustomed to introducing Novelties and new lines. Apply E. C. Evans, Pharmacist, Whiteley's, Ltd., Westbourne Grove, W. 2.

**L**ONDON, W.—Assistant wanted for Counter and Dispensing. Apply the Manager, Heppell & Co., 26 Piccadilly, W. 1.

**L**ONDON, W.—Assistant (unqualified), outdoors, for Counter, Dispensing, and Stock; accustomed to Store trade, with a knowledge of Photography; state age, experience, and salary required. Allen's, Ltd., Chemists, 155 Prind Street, Paddington.

**L**ONDON, W.C.—Qualified Assistant; West-End experience; neat and reliable Dispenser; competent all round; view to filling Managership; knowledge of French an advantage; permanency; outdoors. Apply, with full particulars, Cofman's Pharmacy, 6 Bloomsbury Street, London, W.C.

**M**ANCHESTER.—Unqualified Assistant, with good-class experience; £4 4s. weekly; must be attentive and alert at Counter, good Window-dresser, and keen on progress of self and firm; state age, experience, and when at liberty. Apply "L" (34/34), Office of this Paper.

**M**IDDLESBROUGH.—Junior Assistant required; knowledge of Photography preferred. Apply, stating age, height, experience, and salary required, Waters, Chemists, Middlesbrough.

**N**ELSON.—Qualified Branch Manager wanted. Apply, giving usual particulars as to age, height, and experience, and stating salary required, to Hartleys, Chemists, Railway Street, Nelson, Lancashire.

**N**EW BRIGHTON, CHESHIRE.—Capable and experienced Assistant required (at once); able to be left in charge; must have highest references as regards character and ability; easy hours. Ferriday, 76 Victoria Road.

**N**ORTHAMPTON.—Unqualified Junior Assistant required for brisk progressive business; good opening for smart young man anxious to get on. Apply 84/21, Office of this Paper.

**R**EDCAR.—Junior Assistant wanted; outdoors; good Dispenser. State age, salary, and experience, give reference, to C. J. Allan, Chemist, Redcar.

**S**OUTHSEA.—Assistant wanted in good-class Dispensing and Retail; hours of business, Monday, Tuesday, Thursday, Friday, 9 to 8; Wednesday, 1.30; Saturday, 9 p.m.; 2 hours for meals. Apply, with full particulars of age, height, experience, salary, and references, etc., to W. A. Bell, Chemist, The Strand, Southsea.

**S**OUTH STAFFS.—Junior or Improver (outdoors) immediately; Cash Retail and N.H. Dispensing. State salary required and full particulars to M. H. Griffith, Pharmacist, Great Bridge.



**SOUTH WALES.**—Wanted, a trustworthy and capable qualified Branch Manager for pleasant colliery district; must be a good Salesman and Prescriber; very comfortable berth with good prospects for the right man. Apply, giving full particulars, and enclose photograph if possible, to F. Melville Thomas, The Red Dragon Pharmacy, Neath.

**SOUTH WALES.**—Wanted (immediately), qualified Manager for Branch, mining district; good salary to a thoroughly reliable and trustworthy man. Apply "Rhei" (77/7), Office of this Paper.

**STAFFORD.**—Assistant for Dispensing Counter; applicants must have had good Dispensing experience and be quick and accurate; please state fullest particulars of experience, etc., also salary required, enclosing photograph if possible. J. & H. Averil, Pharmaceutical Chemists, Stafford.

### THE LORD DERBY WAR HOSPITAL, WARRINGTON.

Wanted, temporary Dispenser (female). Must be fully qualified. Salary £60 per annum, with board, lodging, and washing. Applications, stating age, experience, qualifications, and references, must be sent to the Administrator at once.

**WEST END.**—Wanted, Junior Assistant for high-class business; comfortable berth; man from country seeking good experience not objected to. Apply, with full particulars and salary required, to Burden & Co., 78 Duke Street, Grosvenor Square, London, W. 1.

**WEST MIDLANDS.**—Pharmacist required immediately; suit recently qualified gentleman; easy hours; no holiday, Sunday, or night duty; applicants must send full particulars of experience, stating age and salary desired. Apply 83/39, Office of this Paper.

**WEYBRIDGE.**—Unqualified Assistant, outdoors (at once); one accustomed to good-class Dispensing business. Full particulars to W. N. Ashworth, Church Street.

**WORTHING.**—Unqualified Assistant; must have had Dispensing experience; permanency. Full particulars to W. Aston & Co., 27 Montague Street, Worthing.

**ABOUT October 1.**—Junior Assistant or Improver; unqualified; outdoors; from 20 to 23; up in Dispensing, Counter, and Photography; must be gentlemanly, willing, and obliging; opportunity for good all-round experience. Fullest particulars to Pelham Young, Pharmacist, Hounslow. Phone 153 Hounslow.

**ACTIVE,** energetic Manager required for Branch Business; sole charge; good salary and commission. Apply W. Bennison, Pharmaceutical Chemist, 133 King's Road, Chelsea, S.W. 3.

**ASSISTANT** required October 1st for Light Retail and Dispensing business; hours 8.30 to 7, Wednesdays 1, Saturdays 8; state salary required, references, and experience. Thompson, Pharmaceutical Chemist, 31 The Grove, Ealing, London, W. 5.

**ASSISTANT,** unqualified (lady or gentleman), good Counter-hand, knowledge of Dispensing and Photography an advantage, for quick cash Retail business; please give full particulars, with photo if possible. "Chemists," 159 Stratford Road, Birmingham.

**ASSISTANT** wanted (at once) for Drug Stores with a knowledge of Dispensing. Apply, stating age, experience, salary required, and references, to Manager, 103 Victoria Street, Grimsby.

**ASSISTANT** for Dispensing and General Retail (outdoors); also part-time Assistant for relief; good wages and moderate hours. Harold Lyon, 18 Formosa Street, Maida Vale, W. 9.

**ASSISTANT** for Counter and Window-dressing; good-class business; state experience, references, and salary required. C. A. Maries, Pharmacist, Waterloo, Liverpool.

**ASSISTANT** wanted (early October). Junior or lady; good-class Retail, Dispensing, and Photographic; outdoors; no Printing or Developing; no Sunday duty; state age, experience, salary required, references, and when disengaged. H. Barnett, Chemist, Hythe, Kent.

**ASSISTANT** (male); outdoors; South London; accustomed to a brisk business and a good Window-dresser. In reply, please give full particulars of experience, age, salary, references, to "Balham" (87/31), Office of this Paper.

**BODY'S Pharmacies, Chemists, and Ophthalmic Opticians,** Southend, have vacancy for competent Junior, qualified or unqualified, possessing good general experience and reliable Dispensing ability; a comfortable berth in bachelor's quarters; plenty of scope for good man in earnest to settle down. Write, full particulars first letter, enclosing photo and stating salary required.

**CAPABLE Junior** (outdoors) for brisk cash trade; Counter and Dispensing; no Sunday duty. Apply, giving full particulars, to E. J. Latimer, Chemist, 24 Market Place, Loughborough.

**CHEMIST** wanted (immediately); manage branch in colliery village Midlands; ex-soldier preferred; previous similar experience desired. Apply Ward, Chemist, Denaby Main.

**CURTIS & CO.** have vacancy for qualified Assistant. Apply, with full particulars, to W. G. Jameson, c/o Curtis & Co., 48 Baker Street, W. 1.

**DISPENSER** wanted; two other Assistants kept. Apply, giving full particulars, to Wm. Fox & Sons, Ltd., 111 Bernall Green Road, E. 2.

**DISPENSER;** Minor qualifications; compounding of pills not required; hours of work approximately 8.45 a.m. to 6.15 p.m., Saturdays 1 p.m. Apply, personally or by letter, stating experience and salary required, to Manager, Drug Department, Army and Navy Stores, 105 Victoria Street, S.W.

**EASY,** quiet place, for little supervision and reference only; healthy middle-class neighbourhood, N.W.; suit Medical or Major Student, or elderly or partially disabled Chemist. Apply, with particulars, references, and salary required, to 87/22, Office of this Paper.

**EXPERIENCED Assistant** wanted, qualified preferred, for middle of October. Apply R. S. Starkie, 126 Strand, W.C. 2.

**EXPERIENCED Assistant** wanted, well up all round, immediately. Badgett, Chemist, Clarence Place, Newport, Mon.

**GENTLEMAN** holding Minor qualification required as Manager of Branch Retail and Dispensing Business, with some Photographic, at Barry Dock, Glam. Apply, stating age, experience, salary required, and enclose photo, to W. T. Hicks & Co., Duke Street, Cardiff.

**JUNIOR or Improver** (outdoors) required in Yorkshire for good-class Retail and Dispensing business; no Sunday duty; state full particulars and salary required. Apply 83/28, Office of this Paper.

**JUNIOR Assistant** wanted to Dispense and assist with Counter and Stock; outdoors; no Sunday duty. Russell Jacks, Pharmaceutical Chemist, 161 Gower Street, W.C. 1.

**JUNIOR Assistant** required for good-class Dispensing and Retail. Apply, stating age, reference, and salary required (outdoors), to P. B. Gray, Ph.C., The Rexall Pharmacy, Rugby.

**JUNIOR Assistant** required Monday, Tuesday, and Friday evenings from 6-8 p.m.; Counter and N.H.I. work. Apply, personally, Prosser, Roberts & Co., Pharmaceutical Chemists, 87 Lambeth Walk, London, S.E.

**LADY Assistant** wanted for Dispensing and Counter work; state salary required; Staffordshire. Apply 84/19, Office of this Paper.

**LADY, Junior Assistant,** about 24th, for Stock and Counter; must have had experience in a Pharmacy and done some Dispensing; three employed. J. W. Felwell, '91 Hammersmith Road, West Kensington, W. 14.

**LADY Dispenser;** qualification immaterial; knowledge of Nursing advantageous; easy hours. Apply, by letter, Dr. Gunter, 29 Burges Road, East Ham.

**MANAGER** (qualified) wanted for Branch in Liverpool; also Junior.—State references, salary required, and experience to 88/23, Office of this Paper.

**MR. BROWNING MOSS** wishes to engage a gentlemanly Junior or improver for a high-class Dispensing and Family business. Full particulars to Browning Moss, The Pharmacy, West Byfleet, Weybridge.

**OUTDOORS.**—Junior Assistant for quick retail and Dispensing. Apply, stating age, experience, and salary required to Woodward, Chemist, Harwich.



**PAINTS, OILS, AND COLOURS, RETAIL.**—Smart young man wanted as Assistant; permanency; experience essential; state salary required. Apply 84/210, Office of this Paper.

**PART-TIME.**—Junior Assistant wanted for evenings and Saturday (alternate Sunday and Wednesday evenings included). Clapham. Apply 87/36, Office of this Paper.

**QUALIFIED Assistant** wanted for brisk cash business. Apply, with particulars of age, height, experience, and salary required, Wands Ltd., 12 Haymarket, Leicester.

**QUALIFIED Assistant** wanted for head office; whole day a week holiday; exceptional opportunity for man with progressive ideas. Apply, giving full particulars, to Wm. Fox & Sons, Ltd., 111 Bethnal Green Road, E. 2.

**QUALIFIED male Assistant** required in a good-class London suburban business; easy hours; no Sunday or holiday duties. State age, experience, and salary required to Newton Wright, Chemist, Ilford.

**QUALIFIED Manager**, preferably with view to early succession, for Dispensing and Light Retail; London, N.W. 6. "Rex" (84/23), Office of this Paper.

**QUALIFIED**, London, S.W., outdoors.—Pushing Manager wanted, about 30, for quick, up-to-date business; good prospects open for a smart, reliable counterman and organiser. Applicants, kindly give usual particulars as to age, salary, etc., to 87/310, Office of this Paper.

**REQUIRED**, qualified Dispenser (male) for about 6 weeks; hours 9.30 to 5; lunch and tea provided; used to Hospital work. Applications to the Secretary, Queen Mary's Hospital for the East End, Stratford, E. 15.

**S.W.**—JUNIOR Assistant, outdoors, for good-class business. Full particulars, experience, salary required, to 88/28, Office of this Paper.

**SENIOR Dispenser** required; gentleman; Minor qualification; West End; permanency; hours 9 to 6, Saturday 1 o'clock; no Sunday or Bank Holiday duty; give full particulars of experience in first letter, and state salary required and age. Apply 86/26, Office of this Paper.

**STRONG Junior** or turn-over Apprentice required; long previous experience not necessary if willing to work. Apply 88/35, Office of this Paper.

**UNQUALIFIED Assistant** or reliable Junior; Essex; mixed Retail; small N.H.I.; able to take charge when required. Particulars to 84/28, Office of this Paper.

**UNQUALIFIED Assistant.**—Wanted (at once), young man for Retail and Dispensing. State salary required and usual particulars to Kirkpatrick, Chemist, 10 Terrace Road, Upton Manor, E. 15.

**UNQUALIFIED Assistant** wanted (immediately); young, and used to quick trade; state salary required. 'Colemans, 19 Brunswick Street, Cheetham, Manchester.

**WANTED** (immediately), lady or gentleman Assistant for Dispensing and Light Retail; Photography an advantage; indoors; comfortable home. Write, stating full particulars and salary required, enclosing photograph if possible, 84/8, Office of this Paper.

**WANTED** (at once), Chemist's Assistant; active and pushing, with thorough knowledge of the Photographic trade; hours 9 to 7; Saturdays 8 p.m.; no Sunday duty. State salary required to Milburn's Ltd., Chemists, 95 and 97 Northumberland Street, Newcastle-on-Tyne.

**WANTED** (at once), a smart, unqualified Junior for Counter and Dispensing. Apply personally the Manager, Heppells, 35 Haymarket.

**WANTED**, for good-class mixed country Retail, young, unmarried Assistant, energetic, accurate, and reliable, and of good general experience of the Retail trade. Apply, stating salary required, and with usual references, to Clegg & Son, Chemists, Wantage.

**WANTED**, an Assistant in busy Retail in Midlands; an expert Extractor preferred. Apply 72/12, Office of this Paper.

**WANTED**, qualified Assistant for high-class Dispensing business. Apply, personally or by letter, to John Bell & Croyden, Ltd., 50 Wigmore Street, W. 1.

**WANTED**, Junior Assistant for Light Retail business; reasonable hours. Send full particulars to Ostler & Co., Chemists, Rochester, Kent.

**WANTED**, Junior Assistant or Apprentice, with two or three years' experience, for Drug and Dispensing Department (44 hours per week). Apply, stating age, experience, salary required, and copies of references, to the Manager, Co-operative Society, Ltd., Drug and Dispensing Department, Wellington Street, Stockton-on-Tees.

**WANTED**, French-speaking Assistant for afternoon and evening work; also qualified Assistant for Dispensing. Apply The Manager, Heppell's, 78 Strand, W.C.

**WANTED**, Improver or Junior Outdoors for good-class provincial business; easy hours. Reply, stating age, experience, recent references, when disengaged and salary required, outdoors, to R. B. Sandiland, Pharmaceutical Chemist, Leominster, Herefordshire.

**WANTED**, qualified Assistant for small light country business in Cheshire (outdoor); must be steady and reliable. State salary required and references, 90/14, Office of this Paper.

**WANTED**, smart unqualified Assistant; good Dispenser (outdoors). State age, salary required, and references to W. H. Jennings, Market Street, Hoylake, Cheshire.

**WANTED**, qualified Chemist as Manager. Apply Waller & Riley, Ltd., Bradshawgate, Bolton.

**WHOLE** or part time Assistant for Light Retail, Dispensing, and Counter. Apply Marshall & Co., 5 Pimlico Road, S.W. 1.

## WHOLESALE.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

**SOUTH WALES.**—Representative required for a good Winter Line; already selling very well in other parts of the country; commission terms only. "C.P." (89/25), Office of this Paper.

**CHIEF Clerk**, accustomed to Wholesale Drug trade and Office Management; provincial, limited; one willing to take up an interest preferred; full particulars and requirements essential in first instance. Apply 88/330, Office of this Paper.

**CLERK** required, about 24 years of age, by Provincial House; knowledge of Drugs, etc., and experience in export routine essential. Apply, giving full details of experience and salary required, to 88/6, Office of this Paper.

**COMPRESSED TABLETS.**—Operator required by provincial firm; good prospects. State age, experience, and wages required, to "Chemex" (L. 34/3), Office of this Paper.

**DRUG Clerk**, with good knowledge of Estimating Factory Costs and Export experience; advancing position for suitable applicant. Write, stating age, experience, and salary required, and when disengaged, etc., Box 389, Smiths' Agency, Ltd., 100 Fleet Street, E.C.

**GOOD Traveller** required for North Hants, Beds, and Bucks, also for London; must give whole-time service; only real live men need apply. Write "E. E.," c/o Anderson's Advertising Agency, 14 King William Street, Strand, W.C. 2.

**HIGH-CLASS Fancy Toilet Soaps**; thoroughly experienced lady required; capable of controlling during the Buyer's absence. Apply Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W.

**INVOICE Clerk** for Wholesale Drug Department. Apply, stating age, salary required, and full particulars, to Department "W.," Reynolds & Branson, Ltd., 13 Briggate, Leeds.

**LABORATORY Assistant** with first-class experience required by old-established firm of Manufacturing Chemists and Essence Distillers, to assist in manufacturing and analysis, supervise and control staff; position offers scope and permanency for man of ability and initiative. Apply, stating age, salary required, and general experience in confidence, to 84/18, Office of this Paper.



**L**ABORATORY Junior Assistant, used to manufacture of Tinctures and Pharmaceutical Preparations, wanted by Wholesale house in Yorkshire. Send reference, experience, wage required, etc., to 81/20, Office of this Paper.

**L**ABORATORY Hands, experienced, for Manchester district; 2nd Pan and Stillman, Tablet-maker; also Juniors, with some knowledge of Drug trade; state age and full particulars and how soon disengaged. Apply 88/33, Office of this Paper.

**L**IVE Representative, with experience and brains, to call on Chemists in Devonshire and Cornwall; salary and commission on well-advertised line. Write "P. G." c/o Anderson's Advertising Agency, 14 King William Street, Strand, W.C. 2.

**L**IVE Representatives required for Edinburgh, Northumberland, Durham, Cumberland, and Yorkshire, to call on Chemists with a well-advertised line. Write "J. B. C." Anderson's Advertising Agency, 14 King William Street, Strand.

**L**IVE Representative, with experience and brains, to call on Chemists in Edinburgh and the Southern Counties of Scotland; salary and commission on well-advertised line. Write "B. C. A." c/o Anderson's Advertising Agency, 14 King William Street, Strand, W.C. 2.

**M**ANAGER wanted by large Wholesale Manufacturing Chemists in the North-West district, to take control of Chemists' Packed Goods and Ointments; must have experience in the control of hands, and be a good organiser; preference would be given to a man able to introduce new lines. Apply, in confidence, Box No. 23, Messrs. Osborne-Peacock Co., Ltd., County Buildings, 4 Cannon Street, Manchester.

**P**ILL and Tablet Maker required by Wholesale Druggists, South London. State if disabled man, experience, and wages required, to 34/69, Office of this Paper.

**R**EPRESENTATIVE wanted for (1) Yorkshire, (2) S.W. England, to push high-class Pharmaceuticals in good demand amongst Chemists and Doctors; unique opportunity for advancement; liberal salary to right man. Apply, giving previous experience in territory and usual particulars, to 36/23, Office of this Paper.

**R**EQUIRED, responsible Forewoman, having experience in high-class Packed Goods and Toilets; knowledge of factory organisation and capable of controlling staff of 25 girls (London); give full particulars. "E. G. R." (30/13), Office of this Paper.

**R**EQUIRED, lady with experience in controlling girls, to take full charge filling and finishing room; state age, experience, and salary required; good prospects. Address 22/67, Office of this Paper.

**S**URGICAL Instrument Maker requires well-educated Assistant. Application should be made by letter, giving full particulars, to Charles F. Thackray, Great George Street, Leeds.

**T**ABLET Maker required to take charge of three Wilkinson's machines, also Granulating and Coating; free removal; give full particulars to 84/290, Office of this Paper.

**T**HE Cheltine Foods Co., Cheltenham, require Representatives for Scotland, Ireland, South Wales, and London and district; none but gentlemen of experience and a first-class established connection need apply; terms commission basis; side-line possible; Doctors, Chemists, and high-class Grocers. For full particulars apply Manager, Cheltenham.

**T**OILET PREPARATION.—Required, man, to take charge of Perfumery and Toilet Goods Factory; must have had good experience. Write, giving all particulars and state salary required, to 86/260, Office of this Paper.

**T**RAVELLERS, foreign and colonial, required to carry on commission world-wide advertised proprietary remedies; state territory covered to sales. Apply "L." (34/33), Office of this Paper.

**W**ANTED, a quick and reliable Invoice Clerk with experience in invoicing general drug and proprietary article orders. Apply, stating age, experience, and salary required, to Lofthouse & Saltmer, Ltd., Wholesale Druggists, Hull.

**W**ANTED, by a provincial Wholesale house, Laboratory Assistant, with good experience in the manufacture of Galenicals, Toilet Preparations, and Pharmaceutical Chemicals; accustomed to control subordinate staff. Apply 86/20, Office of this Paper.

**T**RAVELLERS wanted with good connections among Retail Chemists, to represent firm of Liniment Manufacturers; expenses, salary, and commission. Reply, stating age and references, to 29/64, Office of this Paper.

**W**ANTED, for the provinces, a Tablet-maker, with good knowledge of the usual processes, and especially of Coating. Full particulars to 86/200, Office of this Paper.

**W**ET Room Hand, experienced, required for South of England; free removal. Give full particulars 84/29, Office of this Paper.

**W**ET Floor.—Required, Assistant for City Wholesale Druggists; previous experience essential. Apply by letter, giving full particulars, to 35/31, Office of this Paper.

**W**HOLESALE Traveller, calling on Doctors, wanted to introduce new line; attractive terms to suitable man. Write, giving fullest particulars, 90/21, Office of this Paper.

**W**HOLESALE (Scotland).—Smart young Clerk, with good experience in Drug trade, for card indexing and costs department. Apply 90/260, Office of this Paper.

**W**HOLESALE.—Drugs, Dressings, etc. Representative wanted for Glasgow and district. Apply 90/26, Office of this Paper.

## SITUATIONS OPEN.

4s. 8d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

(Colonial, Indian and Foreign.)

**C**ALCUTTA.—Required, for Calcutta, first-class Chemical and Druggist Salesman; about 30 to 35 years of age; previous experience essential; knowledge of Indian Import and Export business preferred. Write, giving full particulars of experience and salary required, Z.S. 687, care Deacon's, Leadenhall Street, E.C. 3.

**I**NDIA.—Foreign Traveller, first-class man required by high-class Soap and Perfumery Manufacturers, for India and British Colonies, to start in January next; only applicants with thorough knowledge of the trade and with established connections in the above markets will be considered. Apply 30/63, Office of this Paper.

**S**IAM.—Qualified Chemist-Optician wanted for Siam. Write age and experience to "L." (35/21), Office of this Paper.

## SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.]

RETAIL.

**A**DVERTISER is prepared to take and price few Chemists' Stocks; immediate dates; low terms combined with accuracy. 14 Barnard Road, S.W. 11.

**A**DVERTISER, unexpectedly disengaged through postponing, vacant as Locum from 24th. 14 Barnard Road, S.W. 11.

**A**PPRENTICE (lady), part Hall; twelve months' business; free services six months; permanency. "Apprentice," at 13 Broadway, Beaconsfield, Bucks.

**A**DVERTISER desires a three-years' Apprenticeship; passed College of Preceptors; tall; well educated; London or suburbs. "Tangent" (88/30), Office of this Paper.



**A** S Manager or Managing Assistant; long experience; qualified; excellent credentials; age 56. 2 The Lodge, Sinclair Mansions, W. 12.

**A** S Managing Assistant, 26, unqualified, married, competent all branches, highest references; desires berth in Lancashire where tact and progressive ideas will meet with suitable remuneration. W. Knowles, 23 Wyle Cop, Shrewsbury.

**A** SSISTANT, 24, ex-officer, single, recently demobilised, desires situation in good-class Dispensing and Counter business; four years' experience in high-class business; excellent references; state salary, hours, etc. Apply 84/38, Office of this Paper.

**A** SSISTANT, unqualified, 33, married, disengaged, desires permanency in good-class Retail business; thorough knowledge of Photography; please state salary offered. Apply 84/7, Office of this Paper.

**A** SSISTANT or Superintendent.—Advertiser, qualified, abstainer, married, 22 years' varied experience, desires change from Managership; would any busy Pharmacist desiring good service on basis of mutual time off please communicate; moderate salary; or manage with view to succession; excellent references. Apply 83/24, Office of this Paper.

**A** SSISTANT; 17 years' experience; good Counter, Prescriber, Dispenser; reliable; excellent references; Midlands preferred; disengaged November. Apply 82/21, Office of this Paper.

**A** SSISTANT, 25, unqualified, just demobilised, high-class Dispensing and Retail experience, seeks situation in good-class business; state hours and salary; S. England preferred. H. Caden, 78 Bullar Road, Bitterne Park, Southampton.

**A** SSISTANT; unqualified; 35, married, tall; demobilised; Doctor or Pharmacist; experienced Dispenser, Extractor; St. John Ambulance Certificate. Perkins, 26 The Avenue, Acocok's Green.

**A** SSISTANT or Manager; age 30; qualified, abstainer; highest references; state salary, hours, etc. W. S. Furber, Chidlow, Whitchurch, Salop.

**A** SSISTANT (lady), unqualified, 25, desires post with Chemist or Doctor; two years' experience in the Drug trade; Manchester district preferred. Miss Lee, 175 Highgate, Heaton, Bradford.

**A** SSISTANT, unqualified, 25, single, 5 ft. 9 in., smart appearance, abstainer, recently demobilised, desires situation in S.W.; good Counter and Dispensing, with knowledge of Photography and French; used to good-class London business; five years' previous experience; excellent references; full particulars with photo on request; hard and careful worker; time for study arranged; interview easily arranged and preferred. Write "F. S.," 38 Marmion Road, North Side, Clapham Common, S.W. 11.

**A** SSISTANT (25) desires engagement for evenings and Saturday, having up-to-date, all-round experience; capable of taking charge, or assisting any Pharmacist. Apply "Aspirin," 186 Vauxhall Bridge Road, Westminster, S.W. 1.

**A** SSISTANT (Liverpool district) preparing for Minor, is open to do two or three evenings weekly; Dispensing, etc., etc. Please write 82/14, Office of this Paper.

**A** SSISTANT; 26; excellent Dispensing and Retail experience. Chant, 57 Windermere Road, Ealing.

**A** SSISTANT (lady); unqualified; experienced; Dispensing and Counter; S.W. district preferred; first-class references. C. R., 90 Ashen Grove, Wimbledon Park, S.W.

**A** S Locum permanency; good references; all-round experience. 87/32, Office of this Paper.

**A** SSISTANT, 10 years' first-class Retail and Dispensing experience; married; living accommodation over business preferred. Apply 86/380, Office of this Paper.

**A** SSISTANT Manager of Drug Stores, Counter, Dispensing, Prescribing, Photographics, etc.; over 30 years' wide practical knowledge; good working-class district preferred; keen business methods; London or provincial. Apply Mansfield (86/37), Office of this Paper.

**A** SSISTANT, unqualified; ten years' experience; good references. R. Fairburn, Killamarsh, Sheffield.

**A** SSISTANT, unqualified, requires berth in quick cash retail business; abstainer; just demobilised after four years' service in R.A.M.C.; good all-round experience. Tel.: 415 East. A. J. Smith, 2 Blair Street, Poplar, E. 14.

**A** SSISTANT, Senior, unqualified, open for engagement; reliable. "Assistant," o/o Thomas, Chemist, 157 Cambridge Road, Cardiff.

**A** SSISTANT, high-class Nursing Home, family, and country trade experience, desires post Dispenser; London preferred; some Photography, Bookkeeping; state salary, hours, work. Apply 90/13, Office of this Paper.

**B** ELGIAN Chemist's Assistant seeks situation London; good experience; 36 years age; first references. Write Ch. Goreux, c/o Kursaal Pharmacy, Ostend.

**B** RANCH Manager; qualified; middle-aged; married; good credentials; active, obliging; please state salary. Apply 84/20, Office of this Paper.

**B** RANCH Manager, qualified; 18 years' London experience, 10 as Manager; single; abstainer; disengaged. Please state salary, etc.; 87/21, Office of this Paper.

**B** RINGTON.—Capable Junior required (outdoors); age about 22. Apply E. C. Caton, Chemist, Waterloo Street, Hove.

**B** RINGTON.—Young lady requires position as Assistant at Counter and keeping Stock; 18 months' experience, in full charge of non-Dispensing business; excellent references; Brighton district preferred. Miss Pacey, 32 Buckingham Street, Brighton.

**C** HEMIST'S Daughter, aged 20, desires engagement winter months; general Counter, Retail, N.H.I. Dispensing; Midlands preferred. Apply 87/8, Office of this Paper.

**C** OMPETENT unqualified; married; Photography, Optics; best experience; comfortable permanency desired; please state salary offered, etc. "Rex," 16 Carlton Park Avenue, Raynes Park, S.W. 19.

**C** OMPETENT Assistant; unqualified; married; high-class Dispensing and Retail; experienced in all Photography; good references; disengaged November. Apply 89/14, Office of this Paper.

**C** ROYDON District.—Permanency; unqualified; 12 years' experience in Dispensing, Counter, Photography, and Window-dressing; age 29; married. Apply 88/29, Office of this Paper.

**D** ISENGAGED, Manager or otherwise, Locum or permanency, or will work up branch; 20 years' experience; Extractor and Window-dresser; ex-Staff Sergt mentioned in despatches, R.A.M.C. Bedding, 10 Ponsonby Terrace, Westminster, London.

**D** ISPENSER, lady, Hall qualification, desires post middle of October; excellent testimonials and experience; state full particulars of hours, salary, etc. Apply 85/3, Office of this Paper.

**D** ISPENSER, unqualified, 18 years Dispenser to two Doctors in high-class practice, desires a change end of October or beginning of November; Brighton or South Coast preferred; age 36; energetic and temperate. Apply 82/12, Office of this Paper.

**D** ISPENSER (lady), unqualified, desires post with Doctor or in Institution; country or seaside; experience in Sanatorium; Pathological work; comfortable home and good living essential; small salary; good reference. Gristwood, 78 Woodgrange Avenue, North Finchley, N. 12.

**D** ISPENSER (35) requires permanency, or would do Locum; some Counter experience; Bookkeeping, Extractions, etc.; 16 years' experience in town and country; good references; disengaged. Strutt, 2 London Road, Hailsham.

**D** ISPENSER (lady), Hall qualification, London experience, desires post, Doctor or high-class firm. Apply 86/11, Office of this Paper.

**D** ISPENSER, minor qualification, Retail and Surgery experience; disengaged shortly; good references. Saul (Miss), 33 Victoria Road, Darlington.

**D** ISPENSER, Lady (Hall), requires post; Hospital experience, military and civil; knowledge of milk-testing; excellent testimonials. C. L., 7 Mortlake Road, Kew, Surrey.

**D** ISPENSER (male); age 25; unqualified; 9 years' experience; highest references; with Doctor preferred. Apply 88/31, Office of this Paper.



**D**ISPENSER (lady), Hall qualification, desires post; good Dispensing experience with Chemist, Doctor, and Hospital; London. Apply 88/40, Office of this Paper.

**D**ISPENSER-BOOKKEEPER; disengaged October; Hall; excellent references Chemists, Doctors, and Dispensary; S.W. district preferred; whole or part-time. Apply 84/5, Office of this Paper.

**D**ISPENSING.—Lady (Hall) desires post; good experience. "A," 10 Antrim Grove, Haverstock Hill, N.W.

**D**ISPENSING desired with Chemist in S.W. London; Minor qualification; state terms. Miss Fox, 96 Lewin Road, S.W. 16.

**D**ISPENSING.—Lady (Hall qualification) disengaged end of October; present post three years; Brighton or district. 8 Prestonville Road, Dials, Brighton.

**E**LDERLY qualified man; permanency; experienced Dispenser; N.H.I.; short hours; light duties; London. H. Gibbs, 31 Alexander Street, Bayswater, W.

**E**VENINGS, three or four; North London preferred; good experience N.H.I. and Counter. Busby, 10 Elmsdale Road, Walthamstow.

**E**X-R.A.M.C. Sergt.-Dispenser, aged 36, unqualified, recently had charge of large military Dispensary, with 15 years' Retail Dispensing and Photographic experience, desires position requiring personal interest, initiative, and trust; London district preferred. Please send particulars of salary, etc., to 83/15, Office of this Paper.

**E**XPERIENCED Locum; short engagements; abstainer; references; unregistered. "Prescriber," 15 Waltham Road, Southall, W.

**F**OURTEEN years' experience.—Lady (Apoth. Hall) requires position; non-resident; S.W. London preferred. "M.," 45 Nimrod Road, Streatham Park, S.W. 16.

**H**OSPITAL Pharmacist, open to accept position in Hospital or with M.O.; accustomed to Dispensing, Sputum, and other Analyses; also can assist in routine treatment of Syphilis, etc.; London only. Apply 65/28, Office of this Paper.

**J**UNIOR or Improver desires situation, with time off to allow for evening classes; London district. "Statim," 10a Wyfold Road, S.W. 6.

**L**ADY (21), served three years' Apprenticeship, desires post with high-class Chemist to gain more varied Dispensing experience; excellent testimonials; West-End preferred; outdoors. Miss Martin, 70 Tooting Bec Road, S.W. 17.

**L**ADY Dispenser, disengaged, desires part-time Dispensing with Chemist in or near Watford. "June," 52 Marlborough Road, Watford.

**L**ADY Dispenser (Hall), experienced, seeks post with Chemist or Doctor. "E. E.," 333 Brixton Road, S.W. 9.

**L**ADY Dispenser (Hall), experienced Hospital, Surgery, and Institution; excellent testimonials; in or near London. Apply 84/12, Office of this Paper.

**L**ADY Dispenser, qualified, some years' experience, wishes post, Hospital or Doctors; excellent references. "G. L." (82/23), Office of this Paper.

**L**ADY Dispenser (25), four years' experience, seeks post; Liverpool neighbourhood or London preferred; hours not more than 9 to 6 daily; half-holiday; Doctor, Institution, or Chemist's Dispensary; good references. Apply 82/39, Office of this Paper.

**L**ADY, unqualified, good experience, desires post in Dispensary; London or South of England preferred. Apply 87/30, Office of this Paper.

**L**ADY Dispenser; 21; Hall qualifications; disengaged; London preferred. Thomas, Maxwell House, 24 Clifton Gardens, Maida Vale, W. 9.

**L**ADY Dispenser and Bookkeeper requires post with Doctor or Institution; wide experience; near Hull preferred. H., 31 N. Boulevard, Hull.

**L**ADY Assistant desires post as Bookkeeper or otherwise with Retail or Wholesale Chemist; four years' experience; highest references; W. London or near Maidenhead. Apply 86/32, Office of this Paper.

**L**ADY Dispenser, five years' experience with Chemist and Doctor, disengaged. Apply 86/24, Office of this Paper.

**L**ADY Chemist, 7 years' experience, qualified, capable of Branch Management, wishes situation in or near N.W. London. Apply 86/6, Office of this Paper.

**L**ADY Dispenser (Hall qualifications) requires post with Hospital, Doctor, or Institution in London, North-West preferred. Miss Miller, 5 Dartmouth Park Road, N.W.

**L**ADY, unqualified, shortly desires post in good Pharmacy or as Dispenser to Doctor; capable of taking complete charge. Apply 88/32, Office of this Paper.

**L**IVERPOOL.—Advertiser requires post as Manager, qualified Assistant, or Locum; 34; good references; abstemious; reliable; general experience, including Photographics. "Liver" (90/19), Office of this Paper.

**L**OCUM; Midlands preferred, but not essential; excellent references. Parker, Pharmaceutical Chemist, Spondon, Derby.

**L**OCUM, qualified, is open to engagement (now) for a period or permanency; N.H.I. work and Retail Counter. "Muuro," 72 Wroughton Road, Clapham.

**L**OCUM; temporary work; any description; Dispensing, Counter Relief, sole charge; 2s. per hour. B., 19 Shrewsbury Road, New Southgate, N. 11.

**L**OCUM or permanency; qualified; 43; disengaged; experienced Dispenser. "Chemist," 60 Maples Street, Nottingham.

**L**OCUM; country; qualified; 53; disengaged October 8th; first-class references and experience Optics, Photography; energetic. Dewey, c/o Mr. Maundrell, Chemist, Milton Regis, Sittingbourne.

**L**OCUM disengaged; tall, middle-aged, married, abstainer; high-class preferred; used to control; where ability appreciated. Watson, 6 Upper Stone Street, Maidstone.

**L**OCUM; 30; qualified; reliable Square man; disengaged October 4th. Howarth, Dugdale Road, Burnley.

**M.P.S.** desires post, Managership preferred; good experience and references. Apply 83/16, Office of this Paper.

**M.P.S.**, 40, married, no family, requires Managership, with view to succession, in healthy country district; good living accommodation on premises essential; disengaged end of October. Please state full particulars, salary offered, etc., to "C. S." (76/18), Office of this Paper.

**M.P.S.** (30), London experience (West End and suburban), desires position as Branch Manager; excellent references. Apply 86/27, Office of this Paper.

**M**ANAGER or Locum; qualified; elderly; Manchester or neighbourhood preferred. "F. B.," 32 Wright Street, Manchester.

**M**ANAGER, experienced, desires permanency; qualified; well up in Counter, Dispensing, and Photography; with or without view to succession. Apply "Chemist," 1 The Balconies, East Liss, Hants.

**M**ANAGER; qualified; permanent situation; married; highest credentials and high-class experience; disengaged. "Aspirin" (86/33), Office of this Paper.

**M**ANAGER or Senior; qualified; temporary or permanent; City or Central preferred; energetic and reliable. Apply 86/13, Office of this Paper.

**M**ANAGER; unqualified; with or without view succession; capable, trustworthy. Jackson, 9 Westbourne Street, S.W. 1.

**M**ANAGER; 40; unqualified; 25 years' all-round experience; disengaged October 4th; country optional; please state salary. "Radix" (87/10), Office of this Paper.

**M**ANAGER; qualified; 40; married; experienced; Photography. Osborne, 3 Sandringham Road, Fratton, Portsmouth.

**MANAGER** Drug Store; thoroughly energetic and trustworthy; excellent Prescriber and Counterman; share or salary; unqualified; London or near. "G." (89/4), Office of this Paper.

**MANAGER** Drug Stores, unqualified, desires permanency; abstainer; reliable; excellent references. Reply, with usual particulars, to 88/27, Office of this Paper.

**MANAGING** Assistant or Branch Manager; unqualified; obliging, energetic, and reliable; permanency and progressive; excellent references; position where tact and business-bringing ideas would receive suitable remuneration; good Prescriber, smart Salesman and Buyer; attractive Window-dresser; competent to take sole charge; well recommended; good all-round experience. Full particulars in first letter of salary, hours, and when required, to "G. F.," 138 North Marine Road, Scarborough.

**MANCHESTER**.—Advertiser, qualified, studying medicine, desires part-time work; capable of taking charge; first-class experience. "Pharmacist," 39 Murray Street, Higher Broughton, Manchester.

**PHARMACIST**; 39, married; good general experience; Manager; permanency; at liberty. Peasnell, 64 Church Road, Upper Norwood, S.E. 19.

**PHARMACIST**, active, married, aged 34, seeks Managership; sea or country, where personality, honesty, and ability to increase count. "Medallist" (81/19), Office of this Paper.

**PHARMACIST** (lady); demobilised; experienced Hospital and Retail; excellent testimonials; capable of taking charge. Apply Miss Roberts, "Sisters' Quarters," Royal Naval Hospital, Chatham.

**PHARMACIST**, 31, married, abstainer, requires post as Manager; please state salary. Apply 90/17, Office of this Paper.

**PRACTICAL** experience in good-class Dispensing business required by young lady who has had one year's Dispensing College training. Miss Adams, 75 Barrow Road, Streatham, S.W. 16.

**QUALIFIED**, as Locum or permanency; middle-aged; married; active, progressive; kindly state salary. Apply 84/200, Office of this Paper.

**QUALIFIED**, 35, married, desires post as Manager; state terms. "Statim" (83/25), Office of this Paper.

**QUALIFIED**; 39; disengaged October 1st; as Manager, Locum, or view to succession; experienced and trustworthy. Apply 83/19, Office of this Paper.

**QUALIFIED**; Locum or otherwise; small business; elderly; accurate Dispenser; London or country. "Pharmacist," 18 Penhurst Road, South Hackney.

**QUALIFIED**, M.P.S., 42, married, abstainer, wide experience, excellent references, desires permanent Managership or position of trust; ready now; personal interview preferred. Harper, 5 Greenfield Street, Shrewsbury.

**QUALIFIED** (25), recently demobilised, desires post in good-class business, preferably London district; first-class Dispensing, Retail, and Photographic experience. "C. H. J.," The Nook, Manwick Road, Felixstowe.

**QUALIFIED**; good experience Dispensing, Counter, Photography; excellent references; fluent French; City, West End. Apply 86/14, Office of this Paper.

**QUALIFIED** Manager; 44; married; outdoors. S. C., 191 Croxted Road, West Dulwich, S.E. 21.

**QUALIFIED**; Manager or Assistant; experienced; Photographic; highest testimonials; disengaged early October. "R. L. A.," 22 Ellison Road, Barnes, S.W.

**QUALIFIED**; 30; South preferred; moderate salary. "Statim," 17 Market Street, Chorley, Lancs.

**QUALIFIED**; Locum, Manager, or Dispenser; disengaged; good experience town and country; age 47; height 5 ft. 10 in. Longman, 229 Westminster Bridge Road, S.E. 1. Telephone: 9304 City.

**QUALIFIED**; Locum or permanent, or would manage with view to succession; 40; experienced; satisfactory references; disengaged. "R.," 38 West Brampton, Newcastle, Staffs.

**QUALIFIED** lady, with 10 years' first-class experience, requires post; short hours. Miss John, 20 Bloomfield Avenue, Bath.

**REGISTERED**, Branch, small, Prescriber, etc., at liberty October 4th. Address 7 Guildhall Street, Lincoln.

**REQUIRED**, to manage small Cash Drug Stores, with a view to purchase at an early date; seaside or country preferred. Woolley, High Street, Westerham.

**SUCCESSFUL** Manager desires post, Birmingham or district; qualified; good references. Apply 90/24, Office of this Paper.

**UNQUALIFIED** Drug Store.—Branch Manager desires berth; age 55; active; good experience and reference; 14 years in last situation; near Manchester preferred. Apply 84/30, Office of this Paper.

**UNQUALIFIED** Dispenser, lady, 18 months' Hospital training, will accept low salary to gain further experience with Birmingham Chemist. Apply 83/23, Office of this Paper.

**UNQUALIFIED** (23) requires situation; South England preferred; good all-round experience. "Silver Badge" (82/40), Office of this Paper.

**UNQUALIFIED**; age 39; Counter and Dispensing; London preferred; 8 years previous situation. Apply 86/34, Office of this Paper.

**UNQUALIFIED**, gentlemanly Assistant (30) desires position in London or seaside; please state hours and salary. Apply 88/3, Office of this Paper.

**WOMAN** Dispenser, two years' London Retail experience, Hall qualification, desires post in good-class Pharmacy. L. Bridges (Miss), 34 Steeles Road, Haverstock Hill, N.W.

**YOUNG** lady, P.S.I., wishes appointment as Dispenser to Doctor or Institution; short hours; South of England preferred; excellent references. Please apply with full particulars to Victor E. Hanna, Irish Pharmaceutical Bureau, 70 Lower Mount Street, Dublin.

**YOUNG** lady desires to apprentice herself to good-class Retail Pharmacist; aged 16½; passed Matriculation; within easy distance of Wandsworth. Kindly apply, with full particulars, to Miss Lewis, 152 Garratt Lane, Wandsworth.

## WHOLESALE.

1s. for 12 words or less; 6d. for every 10 words or less Beyond, prepaid.

**AS** Foreman, Pastilles, Jubes, and Liquorice Extract Maker. Apply 85/36, Office of this Paper.

**ADVERTISER** (46), wants re-engagement; 30 years' experience export packing and dispatch; position of trust. Please write "Export," 80 Richmond Road, Leytonstone, E. 11.

**CHEMIST**, with over 30 years' varied first-class Retail experience (London and provincial) in responsible positions, will be glad to hear from any firm of repute (Wholesale, Manufacturing, or large Retail) having vacancy in a similar capacity only moderate salary required for a comfortable berth. Apply 85/38, Office of this Paper.

**COMPRESSED** Tablets.—Smart man, demobilised, 18 years thorough practical experience in all matters appertaining to the manufacture of Compressed Tablets, Sugar-coating, etc. five years' first-class London house, as Foreman; age 36; married. Apply 86/23, Office of this Paper.

**EXPERT** Pill and Tablet Coater seeks responsible position long experience in first-class work. Apply 82/29, Office of this Paper.

**EX-R.A.M.C.** Sergt. Dispenser, recently had charge of an advanced Medical Store, with 20 years' experience with Drugs, desires position requiring trust and capability. Kindly address particulars to 85/4, Office of this Paper.



**FIRST-CLASS** Tablet-maker and Coater desires responsible berth; up-to-date methods. Mr. C. W. Sturman, 41 Winton Houses, King's Cross, N. 1.

**GALENICALS.**—Advertiser seeks situation, position of trust in Manufacturing Works; thoroughly experienced; good organiser; held responsible position in large Steam Laboratories and Warehouse; conversant with Customs and Excise Regulations, spirit recovery, etc.; exportations under bond, cultivation and drying of Medicinal and Culinary Herbs under latest process, distillation of essential oils; 20 years' practical experience. Apply to Tolchard, "Ferns," Long Melford, Suffolk.

**LOZENGE MAKER.**—Young man seeks situation; well up in machine and hand work. Apply 83/35, Office of this Paper.

**PACKER,** expert Export, wants situation; small wages. State terms to T., 32 Saint George's Square, Forest Gate, E.

**PACKER.**—Young lady desires situation as Packer, wet or dry, in Pharmacy or Wholesale Warehouse; disengaged. Miss N. Cooper, 24 Druid Street, Abbey Street; Bermondsey, S.E.

**PHARMACIST,** 30 years' Retail and Travelling experience, open to executive position (indoors) or as Representative. W. Peacock, 54 Richmond Road, Abergavenny.

**QUALIFIED** lady, with first-class experience in Retail, wishes change to Wholesale, or would accept post abroad. Apply 90/10, Office of this Paper.

**REPRESENTATIVE,** sound connection Lancashire, is open for additional Side-line; would entertain Buying Agency for reputable firm. Apply 90/12, Office of this Paper.

**TABLET MAKING.**—Advertiser seeks responsible position; can control all stages of manufacture, or would take charge of large Packed Goods Department, organise, and increase output; highest references. Apply 79/40, Office of this Paper.

**TOILET Preparations.**—Young man seeks position as Manager of Department; wide experience in this capacity with large Manufacturing Chemists; experience suitable to firm branching out in this direction. Particulars, apply 87/5, Office of this Paper.

**WANTED,** offer of progressive position where qualification is not absolutely essential; at home or abroad; 26; unmarried. Apply 87/1, Office of this Paper.

**WET** Counterman, disengaged, requires situation. Morley, 39 Cottoington Street, Kennington.

## MISCELLANEOUS.

7s. for 60 words; every additional 10 words 6d.

**MCADAM & TUCKNISS,** Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.

Shares for sale (free of commission, subject).—305 Allenbury "C" 6% Prefs. 19s. 1½d. c.d., 80 "B" Prefs. 19s. 3d. c.d.; 76 Camwal Ord., 2s. 7½d.; 20 Bengers £5 x 6% Prefs., 99s.; 60 Boots Southern "B" 6% Prefs., 19s. 7½d.; 10 W. J. Bush Prefs., 78s. o.d.; 50 Evans Lescher Prefs., 17s. 4½d.; 100 W. Gossage 6½% Prefs., 21s.; 100 W. B. Fordhams, 13s. 4½d.; 50 Lewis & Burrows 6% Prefs., 16s. 1½d.; 60 Lever 6% New "B" Prefs., 20s. 10½d.; 300 H. Lamplough Ord., 2s. 9½d.; 100 A. J. White, 9s.; 200 Schweppes Deferred, 12s. 4½d.; 115 Claudius Ash 5½% Prefs., 18s. 3d.; 400 Native Guano, 2s. 7½d.; 500 Fields Prefs., 15s. 1½d.

Wanted (subject).—250 Lewis & Burrows Ord., 12s. 6d.; 200 Wright Layman Prefs.

Lots divided. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

**ANSONIA** Nail Clippers, 5 gross, 14s. dozen; good-quality celluloid 4-row Tooth Brushes, 4s. 9d. dozen; Martindale's "Extra Pharmacopoeia," Vols. 1 and 2, 10s.; B.P. 1914, 5s.; 1 gross Scurf Combs, 7s. doz.; 1 cwt. superfine Sealing Wax, 20 sticks to pound, 1s. 3d. lb.; 5 gross assorted Keronyx Combs, knock-out prices. Keats, 7 Station Road, Camberwell New Road, S.E.

**BANDAGES.**—25 Gross 1 in., W.O.W., 10 gross 1½ in., 25 gross 2 in., 25 gross 2½ in., 12 gross 3 in., 3 gross 4 in.; all 6 yds. long; what offers for whole or part? Samples on application. Hanna, Pharmacist, Lower Mount Street, Dublin.

**FOR** Sale privately, 2 Slate Acid Tanks, 500 gallons and 250 gallons, in good condition and connected up with ½ thoroughpins and nuts. For further particulars and to view apply Mr. Sydney Watson, Auctioneer and Valuer, Heanor.

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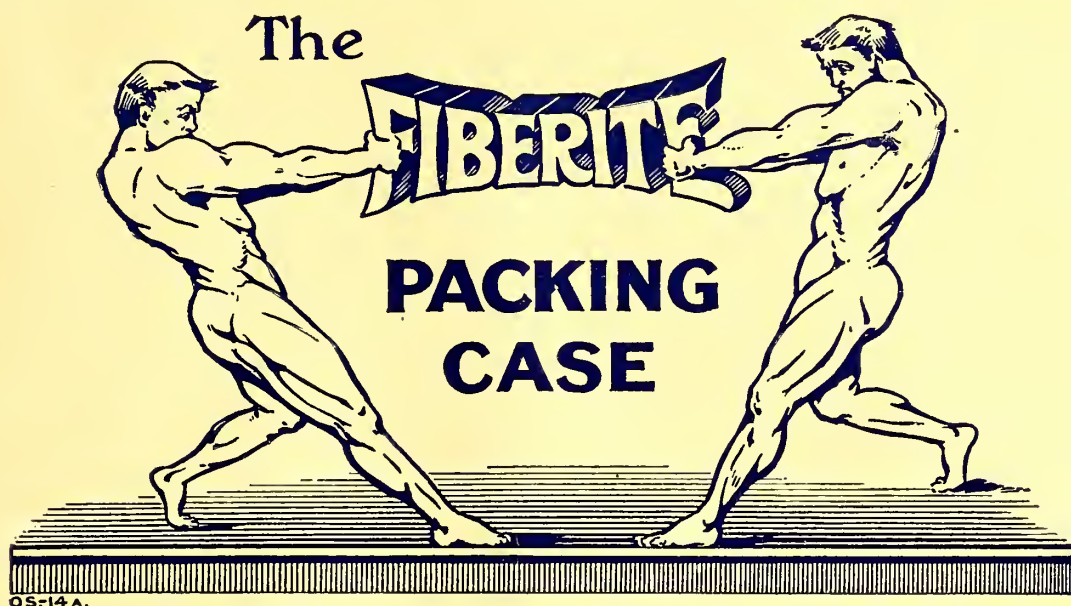
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